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DISTRIBUTORS AND PUBLISHERS

Math Grades 6–12

2015





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Transforming Teaching, Leading, and Learning

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Channel One News



Channel One News[®]:

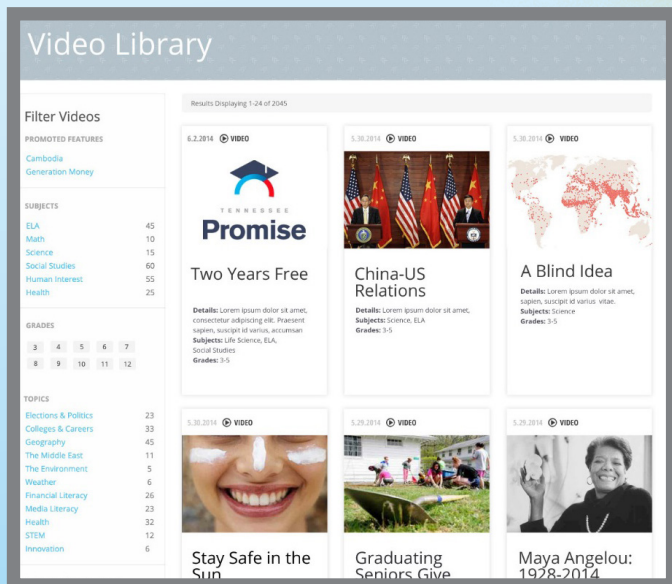
Engaging, Relevant Nonfiction Every Day

Our 7–10 minute **daily newscasts** are produced for young people and include associated curriculum and a searchable Video Library.

News segments build global awareness, critical thinking and media literacy skills with a steady stream of timely, relevant and age appropriate news—every day. Students can interact with the news content through a series of engaging activities, transcripts, thought-provoking discussion and writing prompts, slide shows, timelines and stimulating quiz questions.



The daily newscast and associated curriculum material can be accessed 190 days throughout the school year on all devices with an Internet connection and a modern web browser. Great for full class instruction on interactive whiteboards, group work on laptops, and 1:1 learning environments on tablets and mobile devices.



The easily searchable Video Library of segments with associated curriculum material allows teachers to access news stories when they need them. Choose from 2,200 video segments and 1,200 video transcripts, searchable by:

- Subject
- Key Topics
- Grade Level
- Standards & Skills

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Access

INSIGHT enables you to view data from multiple, separate sources in one place. Solve data access problems, steer data-driven decisions, and chart new paths to success.

edFusion • INSIGHT:

- Consolidates data from disparate sources
- Distills and distributes relevant data via informative dashboards
- Offers users easy, role-based access to just the information they need.

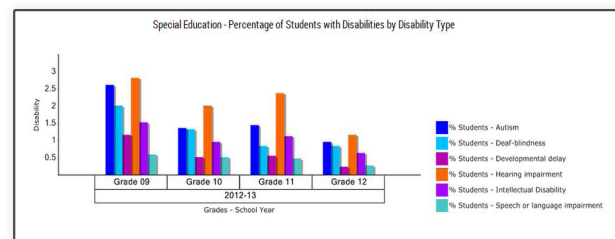
Analyze

With reporting and analysis tools from **INSIGHT**, you can create custom reports and share critical information with those who can turn that information into positive results.

SMART Reports mean easy access to data that is readily available in a standardized report, effortless to run, and customized by role.

edFusion • INSIGHT helps your staff:

- Save time, resources, and effort
- Apply filters and drill down to specific data
- Access data updates in real time.



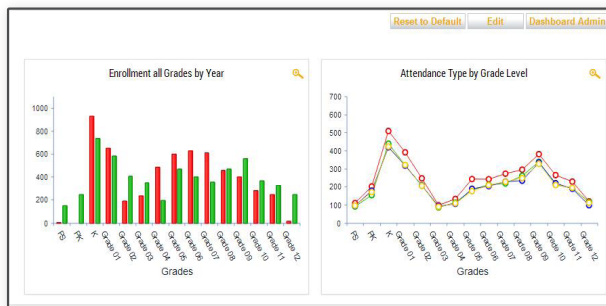
edFusion™ SMART Report

Socialize

INSIGHT Dashboards enable district leaders to supply team members with just the right data and information to help them follow their specific piece of the story to meet goals.

Use edFusion • INSIGHT to:

- Manage successful school improvement efforts
- Monitor progress toward district goals
- Help team leaders collaborate with equal focus and visibility.



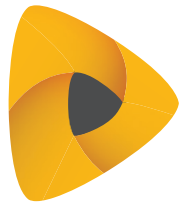
edFusion™ Dashboard enrollment and discipline charts



edFusion™ Dashboard attendance scorecard

A Revolution in Blended Learning





HMHPLAYER

Making 1:1 Learning a Reality

The **HMH® Player** from **Houghton Mifflin Harcourt™** offers all the features and capabilities needed to bring 1:1 digital learning into the classroom today. By seamlessly merging technology with curriculum, the **HMH Player** gives teachers resources for effective and efficient instruction, saving them valuable time.

The **HMH Player FITS** how teachers teach and how students learn, for real-time collaboration! It is:

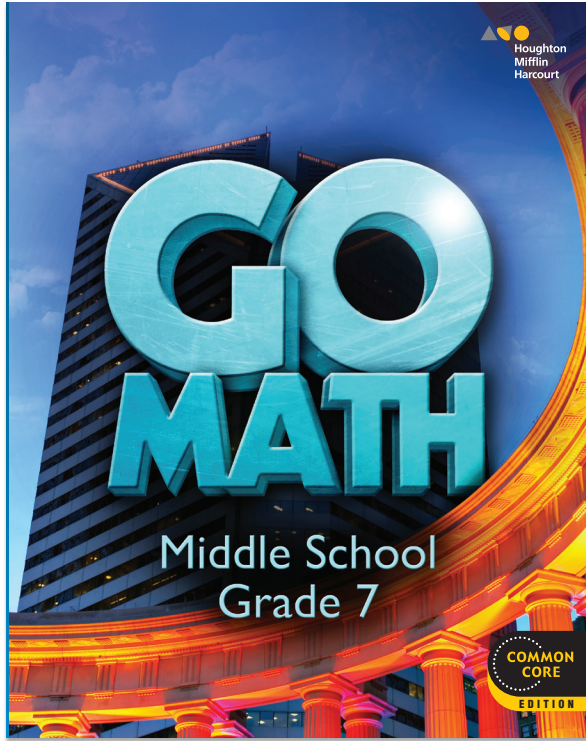
- **Flexible** – Content is available online, offline, and on the go
- **Intuitive** – Turn it on and you're ready to go
- **Transformative** – Launches a new paradigm in teaching and learning
- **Streamlined** – One app, one convenient access point

The **HMH Player*** will help you foster student engagement and curiosity more than ever. Visit hnhco.com/hmh-player to see how today!

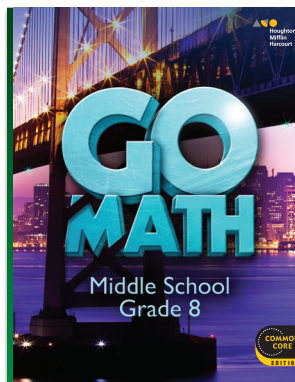
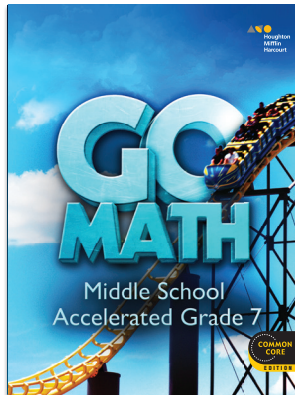
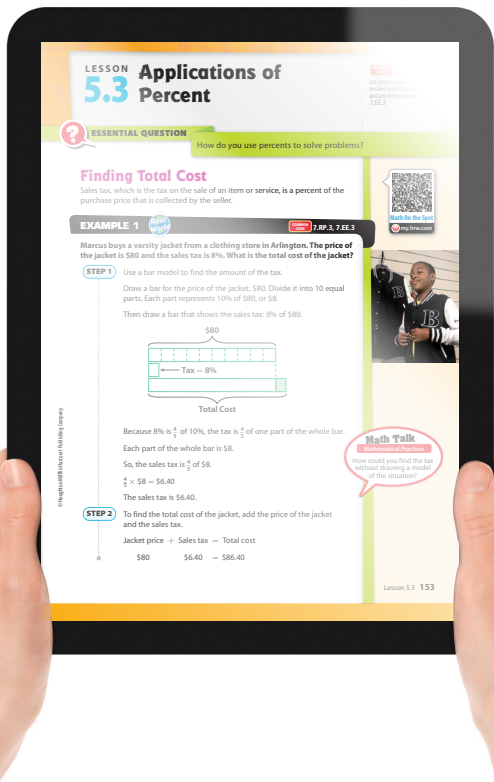
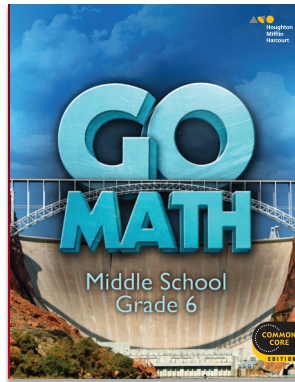
*HMH Player is available for iPad®, Chromebook™, and computers with Windows® 7 or higher, Mac® OS 10.7 or higher running the Chrome™ browser. Current programs are **HMH AGA © 2015**, **Integrated Math 1, 2, 3 © 2015**, and **GO Math!™ © 2015**.



available in the
chrome web store



GO MATH



the next generation solution

MIDDLE SCHOOL
grades 6–8

HMH GO Math 6–8 is a math program built on the Common Core Standards that emphasizes instruction centered on depth of understanding and problem-solving applications, while preparing students and teachers for the rigor of the common assessments. It is truly a 21st-Century program with flexible offerings in both digital and print.

So whether you are flipping your classroom or providing blended instruction, **GO Math** delivers all of the resources you need to create personalized learning and adaptive pathways—thus ensuring successful students.

The Houghton Mifflin Harcourt Advantage

GO Math is a **next generation online program** designed specifically with your students in mind with state-of-the-art videos, interactivities, and algorithmic assessments available at point-of-use. **GO Math 6–8** works on all internet-enabled devices, including smartphones and tablets.

The print Student Edition features full color pages and a **write-in text design** that allows students to immediately engage in mathematics as they begin to build conceptual understanding for every lesson.

The **Personal Math Trainer** is the ultimate online assessment and personalized learning system for students, with an automatic reporting and intervention system for the teacher.

Grades 6–8 © 2014

Authors: E. Burger, J. Dixon, T. Kanold,
M. Larson, S. Leinwand,
M. Sandoval-Martinez

hmhco.com/gomath



Online



eTextbooks

core texts

Interactive Write-In Student Edition

Supports standards mastery through interactive conceptual development as well as procedural fluency. Instructional paths and student learning tasks integrate the standards for mathematical practice and rigorous problem sets to prepare students for the new common assessments. This all-in-one workbook includes lesson development, Homework Practice, Extra Practice and Problem Solving, and Performance Tasks.

Teacher Edition

Supports standards instruction through explanation of best practices, integrating the standards for mathematical practice, and directions detailing how to incorporate program components in an effective manner at point-of-use. The layout is based upon the “5 E’s” of instruction: Engage, Explore, Explain, Elaborate, and Evaluate.

Digital Online Student Edition

This next generation online student edition is designed to work on any internet enabled device including tablets and smartphones. Videos, interactivities, and assessments are available at point-of-use. Students can even “write” on the Online Student Edition giving them the same experience as using the print Student Edition.

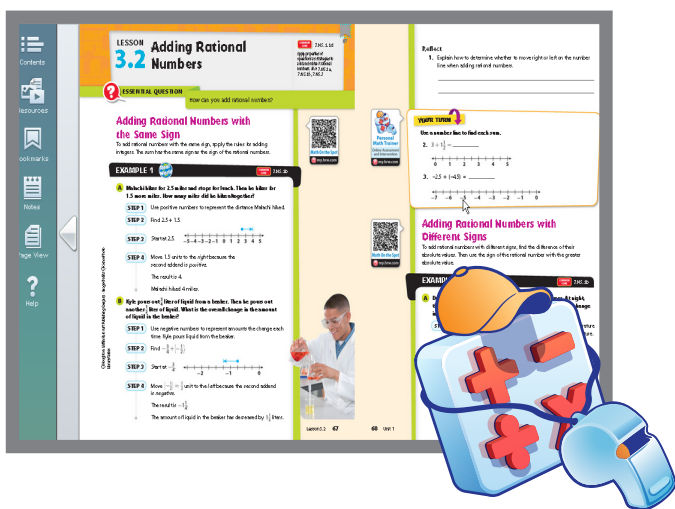


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- Module 2: Factors and Multiples
- Module 3: Rational Numbers

Unit 2: Number of Operations

- Module 4: Operations with Fractions
- Module 5: Operations with Decimals

Unit 3: Proportionality: Ratios and Rates

- Module 6: Representing Ratios and Rates
- Module 7: Applying Ratios and Rates
- Module 8: Percents

Unit 4: Equivalent Expressions

- Module 9: Generating Equivalent Numerical Expressions
- Module 10: Generating Equivalent Algebraic Expressions

Unit 5: Equations and Inequalities

- Module 11: Equations and Relationships
- Module 12: Relationships in Two Variables

Unit 6: Relationships in Geometry

- Module 13: Area and Polygons
- Module 14: Distance and Area in the Coordinate Plane
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Unit 7: Measurement and Data

- Module 16: Displaying, Analyzing, and Summarizing Data

Grade 7 Accelerated

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- Module 1: Adding and Subtracting Integers
- Module 2: Multiplying and Dividing Integers
- Module 3: Rational Numbers

Unit 2: Ratios and Proportional Relationships

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- Module 5: Proportions and Percent

Unit 3: Expressions, Equations, and Inequalities

- Module 6: Expressions and Equations
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Unit 4: Geometry

- Module 8: Modeling Geometric Figures
- Module 9: Circumference, Area, and Volume

Unit 5: Statistics

- Module 10: Analyzing and Comparing Data
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- Module 14: Real Numbers
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Unit 8: Linear Relationships and Equations

- Module 16: Proportional Relationships
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- Module 19: Transformations and Congruence
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- Module 1: Real Numbers
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- Module 15: Two-Way Tables

print resources

Similar Shapes and Scale Drawings
 Reading Strategies: Read a Map

A scale drawing has the same shape, but is not the same size, as the object it represents. A map is an example of a scale drawing. This is a map of a campground. The scale is 1 cm = 10 ft.

To find how far the campground entrance is from the canoe rental office, follow the steps. Use a centimeter ruler to measure.

Step 1: Measure the distance in centimeters. The distance is 4 cm.

Step 2: Set up cross products. $10 \text{ ft} = 4 \text{ cm} \rightarrow 10x = 40$

Step 3: Solve to find the value of x . $x = 40$

Use the map to answer each question.

- How many centimeters is Campsite 3 from the water?
- Write a proportion to find the distance from Campsite 3 to the water.
- How many centimeters is Campsite 3 from the canoe rental office?
- Write a proportion to find the distance from Campsite 3 to the canoe rental office.

GO MATH
 Middle School
 Grade 7
Differentiated Instruction

- Leveled Practice and Problem Solving
- Research
- Reading Strategies
- Success for English Learners
- Challenge
- Answer Key

Also available online

Expressions, Equations, and Inequalities
 Unit Test: C

1. Which equation below matches the relationship shown in the table?

p	1	2	3	5
q	-7	-4	-1	-2

A. $q = p - 1.7$
 B. $q = 0.3p - 1.7$
 C. $q = -2p - 1.7$
 D. $q = 0.4p - 1.7$

2. Jill earns a yearly salary of \$40,000 plus 15% commission on total sales. Shonda earns a \$55,000 yearly salary plus 10% commission on total sales. If all land Shonda each have sales of \$750,000, how much more total income does Jill earn for the year?

A. \$22,500
 B. \$37,500
 C. \$130,000
 D. \$152,000

3. What is the solution to the inequality below?

$$-3x - 14 < -5$$

A. $x < -4$
 B. $x < 3$
 C. $x > 3$
 D. $x > 2$

4. What is the solution to the nearest tenth to the equation below?

$$0.3y = -2$$

A. 6.6
 B. -6.7
 C. -6
 D. 6.7

5. Which table below represents the same linear relationship as $y = 0.15x + 7$?

A.

x	1	2	3
y	-6	-7.7	-6.8

 B.

x	0	4	8
y	-6	-7.4	-6.8

 C.

x	0	5	8
y	-6	-7.2	-6.8

 D.

x	0	6	8
y	-6	-7.5	-7

6. Which inequality has the graphed solution below?

A. $-4 < -2 < 1 < 0 < 1 < 2 < 3 < 4$
 B. $-2x + 4 > 6$
 C. $2x + 4 < -6$
 D. $2x + 4 < 5$

7. Antonia currently has \$4,500 in her savings account. She saves \$150 per month. Cal currently has \$3,400 in his account. He saves \$250 per month. How much more money than Antonia will Cal have after 12 months?

A. \$100
 B. \$250
 C. \$6,300
 D. \$6,400

8. Which of the following values of x is not a solution to the inequality $-5x + 1 < -9$?

A. 1
 B. 2
 C. 3
 D. 4

9. How many positive integers are in the solution set of the inequality below?

$$-2x + 1 > -6$$

A. one
 B. two
 C. three
 D. infinitely many

Differentiated Instruction Resources

Provides additional support for teachers to reach all students within the classroom and includes ELL Support, additional reading strategies, Reteach lessons, Leveled Practice and Problems Solving worksheets (including IDEA blackline masters), and Challenge/Enrichment Practice

Assessment Resources

Printed resource includes Leveled Module Tests, Leveled Unit Tests, Unit Performance Tasks, Diagnostic Assessments, Benchmark Tests, and End-of-Year Tests. (also available in Spanish)

Guided Practice

1. To solve the equation with algebra tiles, first remove -1 tiles from both sides. Then divide each side into two equal groups.

2. Remove -1 tiles from each side.

Divide each side into two equal groups.

The solution is $x = 4$.

3. Let $w =$ the width of the frame.

4. Write the equation.

$$3w + 2w = 18$$

$$3w + 2w = 18$$

$$5w = 18$$

$$w = 3.6$$

The width is 3.6 inches.

5. Use the inverse operations of the operations indicated in the problem. Usually, it is best to use addition and subtraction before multiplication and division.

Independent Practice

6. $3x - 5 = 12$
 $3x = 17$
 $x = 5.67$

7. $4x - 6 = 0$
 $4x = 6$
 $x = 1.5$

8. $-3x + 12 = -48$
 $-3x = -60$
 $x = 20$

9. $\frac{x}{2} + 9 = 30$
 $\frac{x}{2} = 21$
 $x = 42$

10. $\frac{x}{5} - 7 = 15$
 $\frac{x}{5} = 22$
 $x = 110$

11. $\frac{x}{3} + 3 = -35$
 $\frac{x}{3} = -38$
 $x = -114$

12. $3x - 15 = 15$
 $3x = 30$
 $x = 10$

13. $-2x + 5 = 12$
 $-2x = 7$
 $x = -3.5$

14. $-17 \frac{x}{2} = 13$
 $-17x = 26$
 $x = -1.53$

GO MATH
 Middle School
 Grade 7
Solutions Key

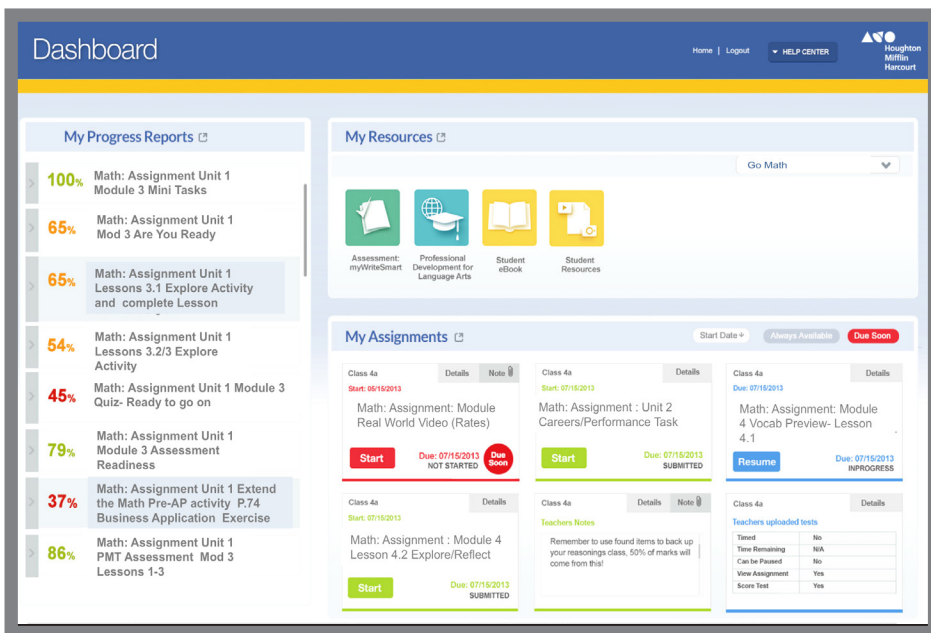
Worked-out solutions for every Practice problem in GO Math Student Edition

Also available online

Solutions Key

Softbound teacher resource that includes worked-out solutions for all problems in the Student Edition.

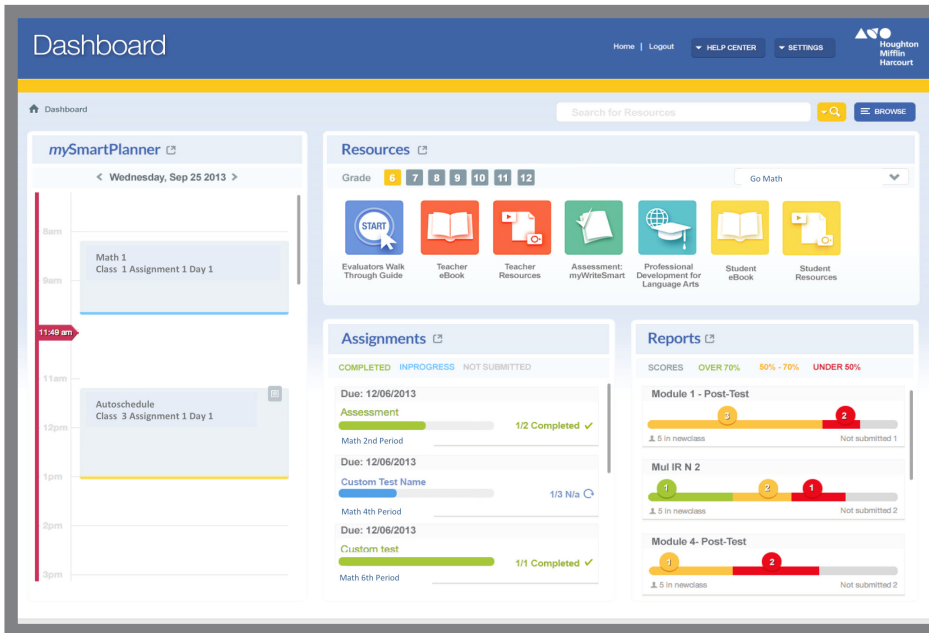
digital resources



Student Dashboard

- **Global Delivery**—deliver Content, Assessment, Intervention on all devices, e.g. desktop, laptop, tablet, smartphone
- **Embedded Media**—videos, simulations, interactivities, graphing tools, and virtual manipulatives
- **Personal Math Trainer**—appears with Are You Ready?, Ready to Go On, Your Turn, Guided Practice, Independent Practice, and Common Test Prep items online. These sections can be assigned electronically to the students with grades reported back to the Teacher’s Dashboard, or students may work the problems as a tutorial. While working the in the Personal Math Trainer, students will have access to Video Tutorials, Online Student Edition, and Hints
- **Notetaking**—functionality to support write-in Student Edition; two sides—one for answers to book that teacher can view and private student freeform notes
- **Animated Math**—short interactivity or simulation of the key concept within a lesson (at least one per module)
- **Math Tools**—virtual manipulatives, graphing tools, and calculators accessible for use while online
- **PDF Resources**—available for access by the students with teacher permission



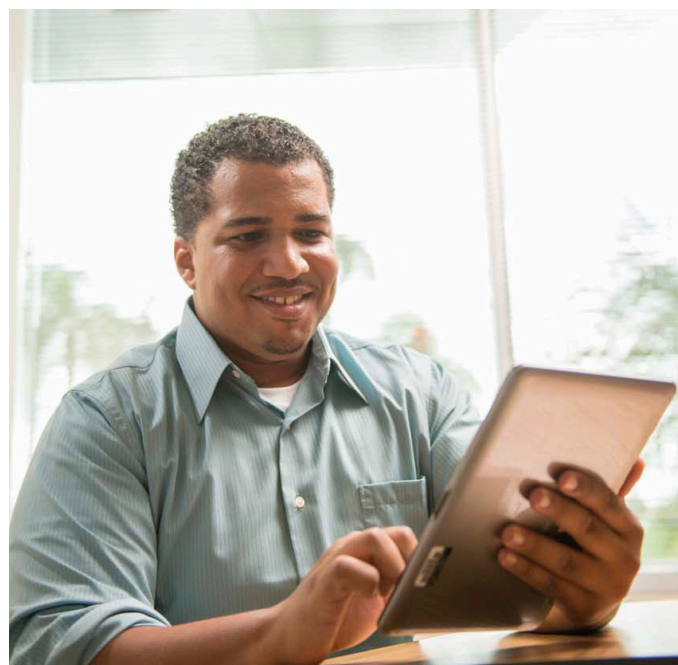


Digital Online Teacher Management Center

The Teacher Dashboard provides quick access to all teacher resources in one place through the Teacher Resource Management Center. This all-in-one hub includes the features below and more!

- **Interactive Teacher Edition**—includes the same features as the Online Student Edition plus much more!
- **Assignment Manager**—organize, view, and assign digital content in a variety of ways (e.g. by TOC, Standards, DOK, RTI skills trace, or assessment needs)
- **PDF Resources**—include differentiated instruction and assessment resources, and are also available in Word so teachers can edit to address class needs
- **Dynamic Gradebook**—provides multiple reports, coordinator/supervisor privileges, email alerts for students and/or parents, and the ability to enter student scores from the Personal Math Trainer (homework and assessments) as well as “other scores”
- **Professional Development**—modeling/best practices videos with author, Juli Dixon
- **Whiteboard Compatibility**—the program is HTML5 compatible and can be accessed on any mobile device and projected for use on interactive whiteboards

- **Teacher One Stop™**— provides all the teaching resources to be downloaded on the teacher’s computer, including the Teacher’s Edition and the printed ancillaries (downloadable from the Teacher Resources Management Center)
- **Examview®** (downloadable)



assessment and intervention

Interactive Answers and Solutions Software

Customize answer keys to print or display in the classroom, and choose to include answers only or full solutions to all lesson exercises. (Downloadable from the Teacher Resources Management Center)

Assessment Resources

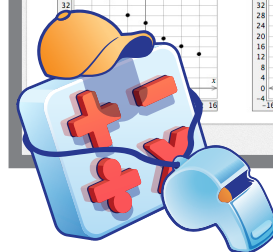
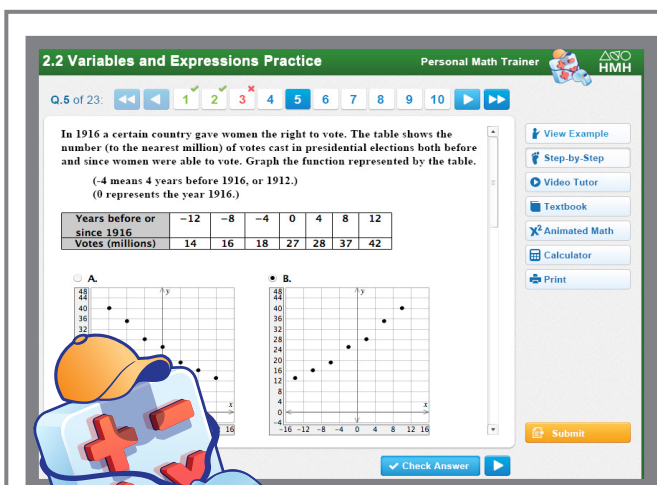
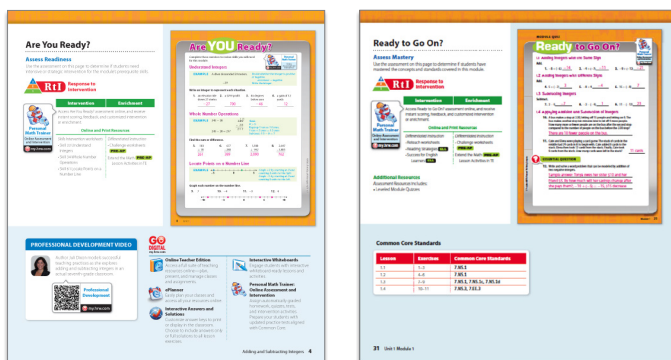
Includes Leveled Module Tests, Leveled Unit Tests, Unit Performance Tasks, Diagnostic Assessments, Benchmark Tests, and End-of-Year Tests.

Differentiated Instruction Resources

This all-in-one resource for teachers provides additional support for teachers to reach all students within the classroom, and includes ELL Support, additional reading strategies, Reteach lessons, Leveled Practice and Problem Solving worksheets (including IDEA blackline masters), and Challenge/Enrichment Practice. (Print, online, and on Teacher One Stop)

ExamView Assessment Suite Test Generator

ExamView 6–8 is aligned to the textbooks, standards, and Depth of Knowledge. Teachers are able to generate assessments or practice for the Modules, Units, or as needed. (Downloadable from the Teacher Resource Management Center)



Personal Math Trainer

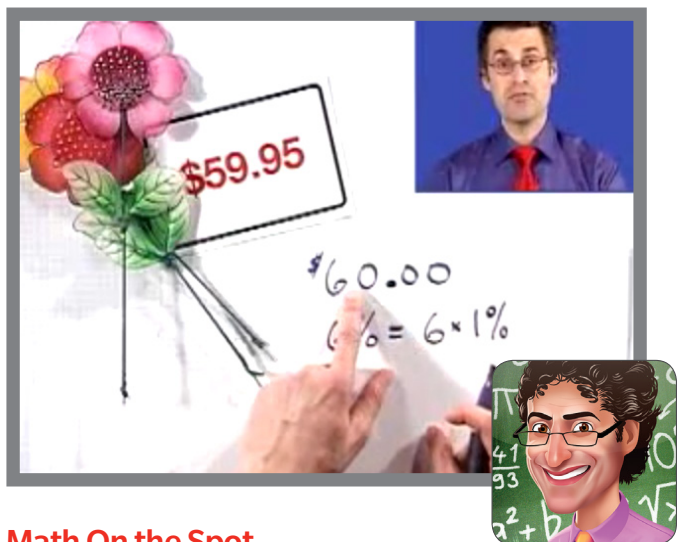
The Personal Math Trainer is the **ultimate** online assessment and personalized learning system for students, with an automatic reporting and intervention system for the teacher.

A wide array of assessments online can be assigned electronically to the students with grades reported back to the Teacher’s Dashboard. In conjunction with the online Teacher’s Edition, the Personal Math Trainer can automatically prescribe a targeted intervention path for your students. It also allows you to assign Homework, Practice, and Assessments to entire classes or individuals. Additionally, the program provides a wide variety of reports, including data by student, standard, etc.

Students can also work the problems as a tutorial. Students have access to **Video Tutorials**, **Examples**, and **step-by-step solutions** to EACH problem!

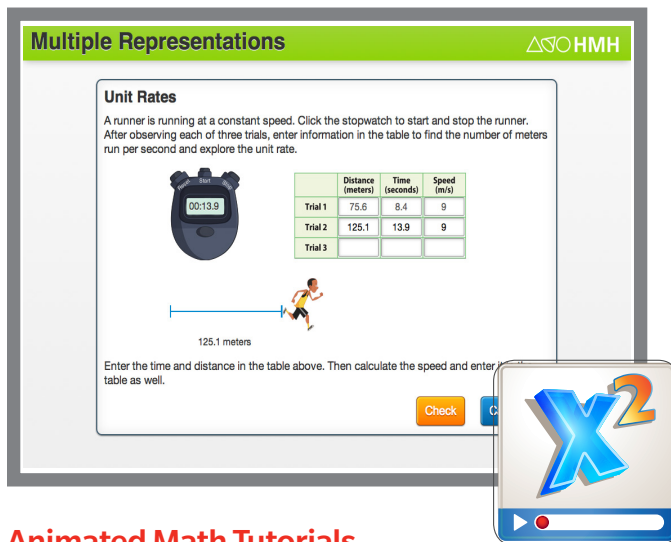
- **Practice**—with dynamic items and assignments, students get unlimited practice on key concepts supported by guided examples, step-by-step solutions, and video tutorials
- **Assessments**—choose from course assignments or customize your own based on course content by standard, difficulty level, and more
- **Homework**—students can complete online homework with a wide variety of problem types— including the ability to enter expressions, equations, and graphs—and it will be graded
- **Intervention**—let the Personal Math Trainer automatically prescribe a targeted, personalized intervention path for your students
- **Assignments**—permits teachers to assign Homework, Practice, and Assessments to entire classes or individuals. This includes the functionality of Start Date, End Date, Due Dates and Shuffle. There is also a pause and print function.

videos



Math On the Spot

Math On the Spot video tutorials, featuring program authors Dr. Edward Burger and Martha Sandoval-Martinez, accompany **every example in the textbook** and give students step-by-step instructions and explanations of key math concepts. Access for teachers, students, and parents helps improve their understanding of Common Core concepts.



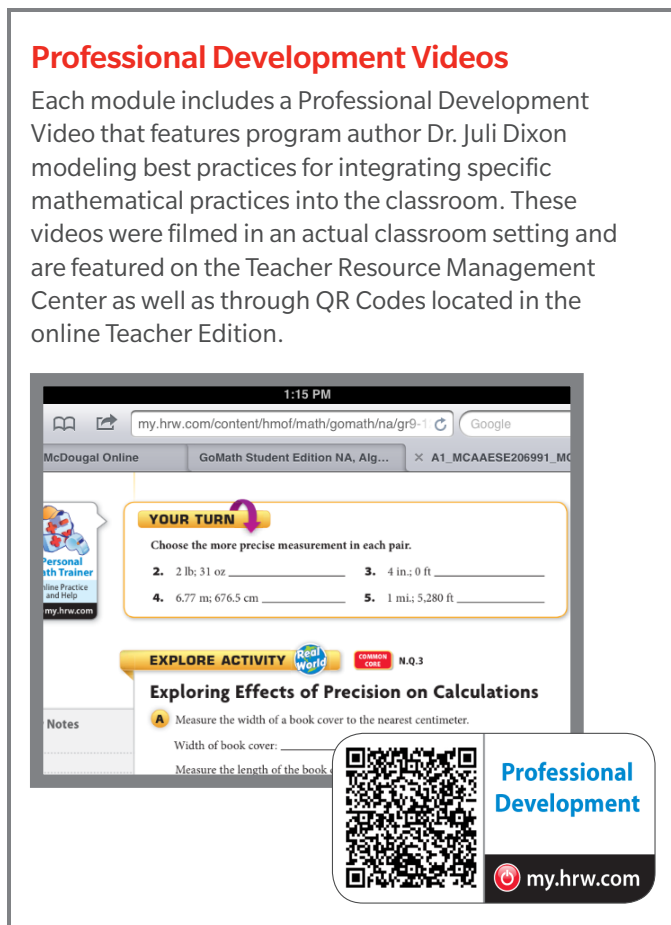
Animated Math Tutorials

Animated Math tutorials are short interactivities or simulations that emphasize the key concept within each lesson and keep students engaged as they develop fluency with the Standards.



Real-World Videos

Real-World videos engage students with interesting and relevant applications of the mathematical content of each module.



Professional Development Videos




Each module includes a Professional Development Video that features program author Dr. Juli Dixon modeling best practices for integrating specific mathematical practices into the classroom. These videos were filmed in an actual classroom setting and are featured on the Teacher Resource Management Center as well as through QR Codes located in the online Teacher Edition.

MIDDLE SCHOOL
grades 6–8




GO Math


price list

GO Math Grade 6

Product	ISBN	Price
Individual Packages		
Premium Student Resource Package		
Interactive Write-In Student Edition (1 per year for subscription duration)		
Online Student Edition with Personal Math Trainer (1 per year for subscription duration)		
Common Core Assessment Readiness Workbook (1 per year for subscription duration)		
Downloadable Student Edition PDF *		
*Not available in 1-year subscription		
Premium Student Resource Package 1 Year	978-0-544-58272-9	39.53
Hybrid Student Resource Package		
Interactive Write-In Student Edition (1 per year for subscription duration)		
Online Student Edition with Personal Math Trainer (1 per year for subscription duration)		
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GO Math Grade 7




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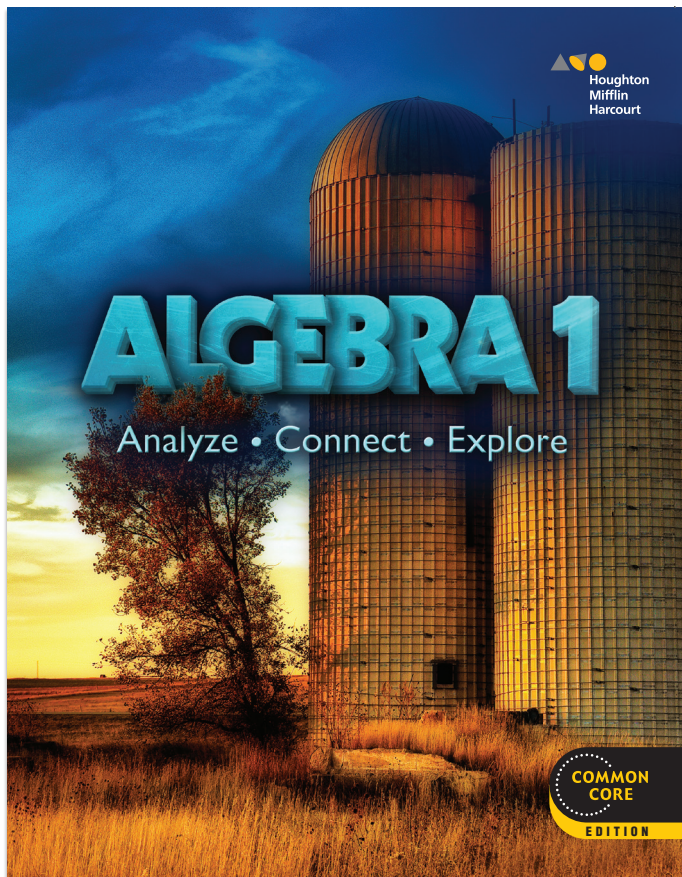
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GO Math Grade 8

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Algebra 1:

Analyze, Connect, Explore

The Houghton Mifflin Harcourt Advantage

Algebra 1: Analyze, Connect, Explore is a **next generation online program** designed specifically with your students in mind with state-of-the-art videos, interactivities, and algorithmic assessments available at point-of-use. *Algebra 1: Analyze, Connect, Explore* works on all internet-enabled devices, including smartphones and tablets.

The print Student Edition features full color pages and a **write-in text design** that allows students to immediately engage in mathematics as they begin to build conceptual understanding for every lesson.

The **Personal Math Trainer** is the ultimate online assessment and personalized learning system for students, with an automatic reporting and intervention system for the teacher.

Algebra 1: Analyze, Connect, Explore is a focused program designed to meet the objectives and intent of the Common Core State Standards for Mathematics.

The author team for *Algebra 1: Analyze, Connect, Explore* consists of mathematics educators and school district personnel and includes representation from the leadership of NCTM. *Algebra 1: Analyze, Connect, Explore* was specifically written to provide thorough coverage of the CCSS with an emphasis on depth of instruction. Particular attention was given to providing support for teachers as they transition to a focused, rigorous curriculum.

Grades 8–12 © 2014

Authors: E. Burger, J. Dixon, T. Kanold,
M. Larson, S. Leinwand,
M. Sandoval-Martinez



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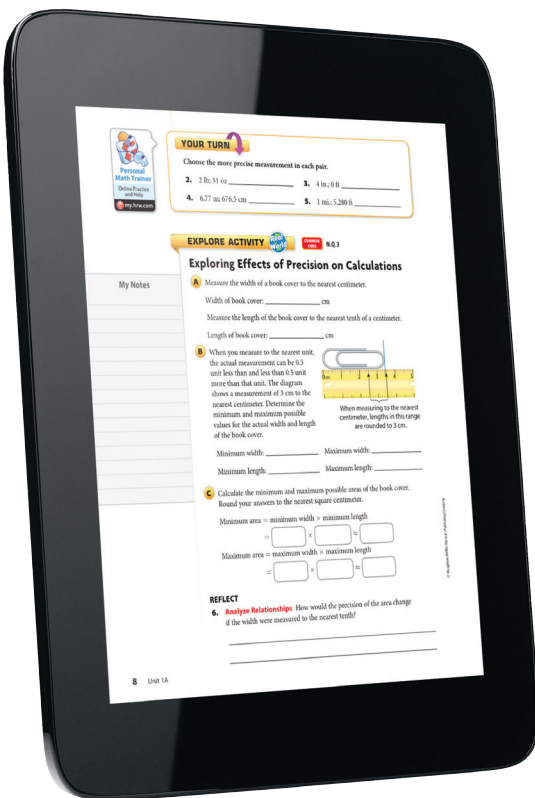
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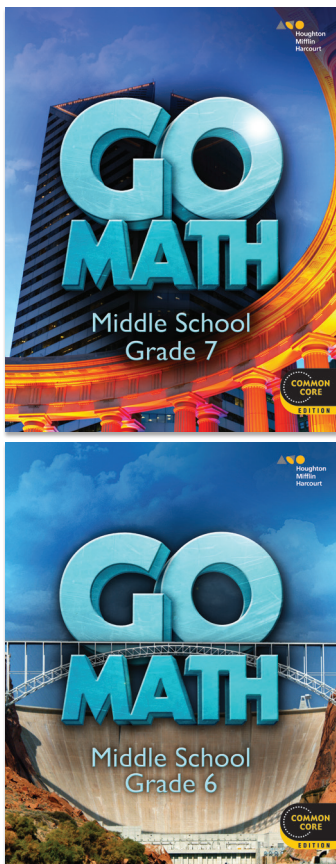
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For additional options, please contact your local Account Executive.





Professional Development for Initial Implementation

GO Math 6–8 Initial Program Overview

Designed for teachers that are new to **GO Math**, this three-hour training provides an overview of the program organization, instructional resources, and technology. Teachers learn how to:

- Apply understanding of program organization and pedagogy to daily instruction
- Integrate components and resources that support differentiation, assessment, and effective whole- and small-group instruction
- Use technology to enhance instructional delivery and student learning

GO Math 6–8 Beyond the Basics

This three-hour training is designed to provide a deeper understanding of differentiation, assessment, and technology to support successful implementation. Teachers learn how to:

- Apply understanding of differentiation to daily instruction
- Utilize various formative and summative assessment resources to target instruction
- Use technology to enhance instructional delivery and student learning

GO Math 6–8 Full-Day Implementation

This full-day training includes both the Initial Program Overview and Beyond the Basics sessions.

GO Math 6–8 Full-Day Demonstration Lessons or Product Coaching

Choose a full day of product coaching or demonstration lessons. Rooted in Praxis™, these Praxis in Action sessions focus on deeper understanding, interpretation, and application of program components. Professional Development Specialists provide feedback on instructional practices, climate, delivery, and impact.

GO Math 6–8 Two-Hour Webinar

Choose either Initial Program Overview or Beyond the Basics as a two-hour live webinar.

Schools who invest in **GO Math** recognize the importance of successfully implementing a proven, research-based program. Our Implementation Directors work with you to customize a professional development plan that you can sustain long after initial implementation.

eLearning

NEW eLearning Professional Development

As an alternative to live training, we offer online eLearning courses for teachers that provide implementation support and professional development.

Contact your HMH Account Executive to learn more or click here and visit our elearning page.

hmhco.com/elearningPD



We offer a discount when scheduling consecutive days of training.

Contact your HMH Account Executive to learn more.

GO Math 6–8 Customized Full-Day Training

This training is customized to meet the specific Professional Development needs of clients. Working with a Professional Development Director, clients play an active role in creating outcome-based learning objectives. Once objectives are set, a minimum of 45 days are needed to develop and prepare for effective delivery.

GO Math Full-Day Advanced Implementation

Select two three-hour interactive workshops from below to create a full day of advanced implementation training for your teachers.

Differentiation and Intervention in a GO Math 6–8 Classroom

This three-hour advanced implementation workshop explores best practices for differentiation and intervention utilizing **GO Math** instructional support resources. With differentiation and intervention closely tied to effective instruction and student achievement, participants will learn how to integrate print and digital support, questioning strategies, and progress-monitoring tools found in **GO Math**.

Assessment and GO Math 6–8

Preparing for Common Core assessments require a strategic instructional plan that includes incorporating short constructed responses, extended constructed responses and performance tasks into daily teaching. This three-hour workshop begins with a brief overview of Common Core and Mathematical Practice Standards within the context of the Common Core Assessments. From that lens, teachers will inventory **GO Math** print and digital support for formative and summative assessment and learn how to best use these resources to inform instruction.

price list

Product	ISBN	Price
GO Math Initial Program Overview	978-0-544-32965-2	3,733.33
GO Math Beyond the Basics	978-0-544-32981-2	3,733.33
GO Math Full-Day Implementation	978-0-544-32980-5	3,733.33
GO Math Demonstration Lessons or Product Coaching	978-0-544-32983-6	3,733.33
GO Math Two-Hour Webinar	978-0-544-32988-1	1,066.67
GO Math Customized Full-Day Training	978-0-544-32986-7	4,933.33
GO Math Full-Day Advanced Implementation*	978-0-544-32982-9	3,733.33

* Because of the hands-on nature of these workshops, clients must have **GO Math** program materials available for training. In addition, participants will need access to computers and Internet.

**This product is not endorsed by nor affiliated with PARCC or Smarter Balanced Assessment Consortium.

Advanced Implementation to Deepen Mastery

Looking for more advanced training? With our Advanced Implementation Workshops, teachers learn about best practices related to language arts. These interactive workshops are rich with reflection and collaboration. Participants gain a deep understanding of instruction related to language arts and how to best apply this knowledge through **GO Math**. Professional Development Specialists guide teachers through Action Planning to ensure they identify and meet their learning goals.

Mathematical Practices in the GO Math 6–8 Classroom

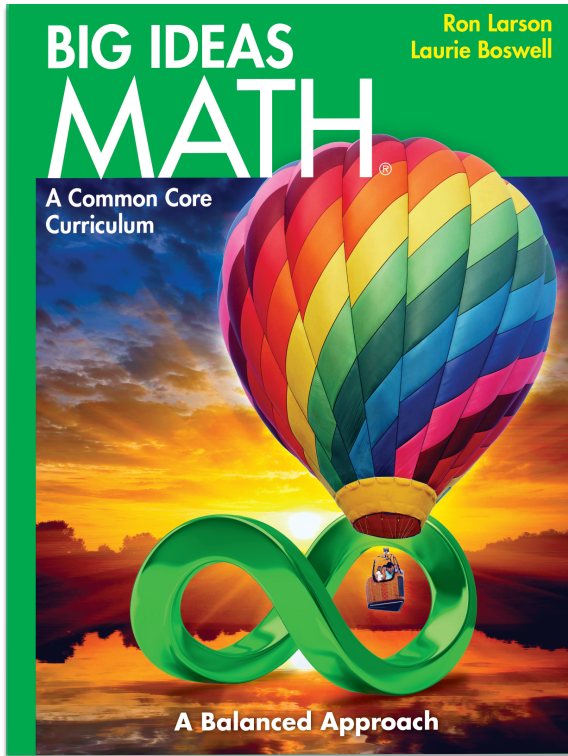
Mathematical Practice Standards require teachers to teach mathematics with process and reasoning at the forefront. After exploring each Practice Standard, participants will have common language as to what the Standard is, how it looks, and how to strategically assess its effectiveness in the math classroom. With learning outcomes in mind, participants will integrate Mathematical Practices using **GO Math** instructional practices, resources, and support during this three-hour workshop.

Creating the Common Core Environment with GO Math 6–8

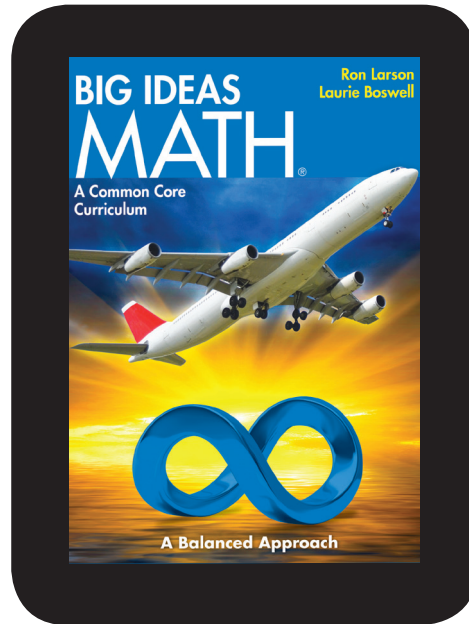
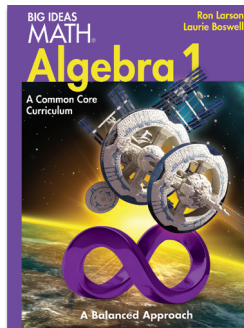
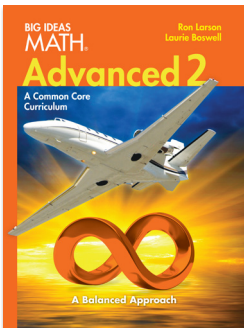
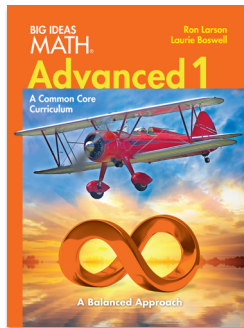
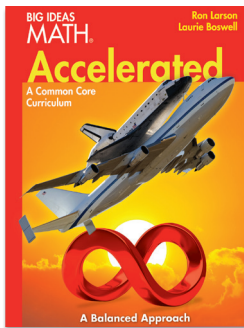
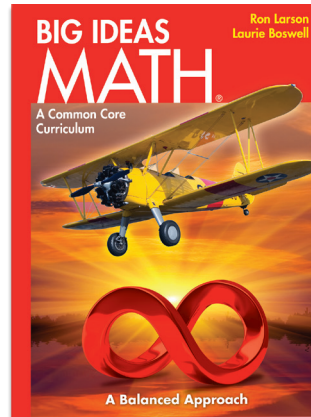
How do focus, coherence and rigor look in the classroom environment? This three-hour workshop provides participants with the opportunity to explore these essential elements and learn how to scaffold student development and understanding of mathematical concepts within a rigorous Common Core learning environment. With **GO Math** print and digital materials, teachers will learn how to create a learning environment that supports the expectations of the Common Core.

Technology in the GO Math 6-8 Classroom

This three-hour workshop focuses on the key components of the digital classroom environment and how to successfully teach using **GO Math** technology. By exploring the various student and teacher digital resources found in **GO Math**, teachers will plan and practice how to successfully integrate this technology into their classroom. Whole- group instruction, small-group differentiated instruction, and independent learning will be explored.



Big Ideas Math



The only program to offer
multiple pathways for the
Common Core State
Standards

a common core curriculum for middle school

Your Common Core State Standards Solution

Big Ideas Math, by award-winning authors Ron Larson and Laurie Boswell, is the only comprehensive program developed for the Common Core State Standards and written with embedded mathematical practice strategies while addressing the progressions documents. The **Big Ideas Math** program answers the call for a more focused, coherent and rigorous middle school math textbook.

Grades 6–8 © 2014

Authors: R. Larson, L. Boswell

hmhco.com/bigideasmath



Online



Why Choose **Big Ideas Math**?

Ron Larson and Laurie Boswell

No other authorship team provides the balance of classroom experience and mathematical expertise that the **Big Ideas Math** program authors bring to the table. Ron Larson has dedicated his life to providing students with all of the tools they need to be successful in mathematics. Laurie Boswell is still active in the classroom and provides invaluable support for teachers.

Balanced Instructional Approach

Big Ideas Math is dedicated to the balanced approach to instruction. A full day is allotted in each lesson for student directed discovery learning, allowing them to develop conceptual understanding. The discovery learning is followed by teacher-directed instruction giving students the opportunity to utilize clear, precise mathematical language and structure.

Dynamic 21st-Century Technology

Big Ideas Learning, integrated the very latest educational technology with its industry-leading mathematics curriculum. This Dynamic Technology package is available exclusively with the **Big Ideas Math** program and includes the Dynamic Assessment and Progress Monitoring Tool, Dynamic Student Edition eBook App, and Dynamic Teaching Tools.

Continuous Preparation for Assessment

Every section in the **Big Ideas Math** program utilizes question types frequently found on standardized tests. Every chapter also culminates in a Standards Assessment. The balanced approach to instruction and higher-order thinking problems embedded in the program help students develop the habits of mind required to be successful on high-stakes tests.

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Green (6th Grade Standards)

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3. Algebraic Expressions and Properties
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6. Integers and the Coordinate Plane
7. Equations and Inequalities
8. Surface Area and Volume
9. Statistical Measures
10. Data Displays

Red (7th Grade Standards)

1. Integers
2. Rational Numbers
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4. Inequalities
5. Ratios and Proportions
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8. Circles and Area
9. Surface Area and Volume
10. Probability and Statistics

Blue (8th Grade Standards)

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2. Transformations
3. Angles and Triangles
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5. Systems of Linear Equations
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10. Exponents and Scientific Notation

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7. Polynomial Equations and Factoring
8. Graphing Quadratic Functions
9. Solving Quadratic Equations
10. Square Root Functions and Geometry
11. Rational Equations and Functions
12. Data Analysis and Displays

Red Accelerated*

1. Integers
2. Rational Numbers
3. Expressions and Equations
4. Inequalities
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Advanced 1*

1. Numerical Expressions and Factors
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9. Data Analysis and Displays
10. Exponents and Scientific Notation
11. Inequalities
12. Constructions and Scale Drawings
13. Circles and Area
14. Surface Area and Volume
15. Probability and Statistics

core texts

Student Edition

The Student Edition was designed using the Universal Design for Learning Guidelines (CAST© 2011) and features carefully chosen images that increase student engagement and enhance the mathematical content.

Teaching Edition

The Teaching Edition provides teachers with complete support for every **Big Ideas Math** lesson. Master educator Laurie Boswell incorporates instructional insights and recommendations in Laurie's Notes.

Dynamic Student Edition

The Dynamic Student Edition is a complete interactive version of the student text and contains embedded Investigations and direct links to remediation. It is available online and as a downloadable eBook App.

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* See page 25 on our Accelerated and Advanced pathways

featured resources

Multiple Pathways

Big Ideas Math is the only program to offer three learning pathways through the middle school mathematics curriculum.

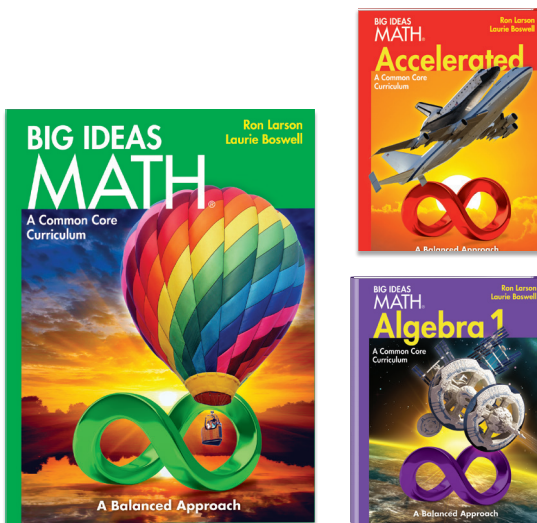


Standard Pathways

The Standard Pathway takes on-level students through middle school mathematics in three years and prepares them for Algebra 1 in ninth grade.

Advanced Pathways

The Advanced Pathway prepares students for Algebra 1 in the eighth grade. Students begin their acceleration in 6th grade with Advanced 1.



Accelerated Pathways

The Accelerated Pathway begins with on-level sixth-grade mathematics, but allows students to prepare for Algebra 1 in eighth grade through an accelerated 7th grade mathematics curriculum.

MIDDLE SCHOOL
grades 6–8

Big Ideas Math

featured resources

Balanced Instructional Approach

The **Big Ideas Math** program follows a balanced instructional approach. The program balances conceptual understanding with procedural fluency, as research shows that students benefit from equal exposure to discovery learning and direct instruction.

Student Directed Discovery

Each section starts with a full day of inquiry which begins with an essential question. Students gain a deeper understanding of topics through inductive reasoning and exploration as they work through the activity.

COMMON CORE
Geometry
In this lesson, you will

- find areas of parallelograms.
- solve real-life problems.

Learning Standard 6.G.1

4.1 Areas of Parallelograms

Essential Question How can you derive a formula for the area of a parallelogram?

A **polygons** is a closed figure in a plane that is made up of three or more line segments that intersect only at their endpoints. Several examples of polygons are parallelograms, triangles, and trapezoids.

The formulas for the areas of polygons can be derived from one area formula, the area of a rectangle. Recall that the area of a rectangle is the product of its length l and its width w . The process you use to derive these other formulas is called **deductive reasoning**.

Rectangle

Defined

Lesson 4.1

Parallelogram

Derive formula.

Lesson 4.1

Triangle

Derive formula.

Lesson 4.2

Trapezoid

Derive formula.

Lesson 4.3

Area = lw

1 ACTIVITY: Deriving the Area Formula of a Parallelogram

Work with a partner.

a. Draw any rectangle on a piece of grid paper. An example is shown below. Label the length and width. Then find the area of your rectangle.

b. Cut your rectangle into two pieces to form a parallelogram. Compare the area of the rectangle with the area of the parallelogram. What do you notice?

Math Practice 3

Use Assumptions
How are rectangles and parallelograms similar? How can you use this information to solve the problem?

Essential Question How can you derive a formula for the area of a parallelogram?

Teacher Directed Instruction

The teacher directed lesson provides clear stepped out examples that scaffold throughout the lesson ending with a real life application.

Exercises

Questions build in complexity requiring students to communicate precisely, use appropriate tools for problem solving and ultimately construct viable arguments to defend their results.

4.1 Lesson

Check It Out! Real-World Question

The area of a polygon is the amount of surface it covers. You can find the area of a parallelogram in much the same way as you can find the area of a rectangle.

Key Idea
Area of a Parallelogram
The area of a parallelogram is the product of its base b and its height h .
Algebra: $A = bh$

EXAMPLE 1 Finding Areas of Parallelograms
Find the area of each parallelogram.

EXAMPLE 2 Real-Life Application
You make a photo prop for a school fair. You cut a 10-inch square out of a parallelogram-shaped piece of wood. What is the area of the photo prop?

Convert the dimensions of the piece of wood to inches. There are 12 inches in 1 foot, so the base is $4 \cdot 12 = 48$ inches and the height is $8 \cdot 12 = 96$ inches.

Use a verbal model to solve the problem.

area of photo prop = area of wood - area of square

$$= 96(48) - 10^2 \quad \text{Substitute.}$$

$$= 96(48) - 100 \quad \text{Evaluate } 10^2.$$

$$= 4608 - 100 \quad \text{Multiply 96 and 48.}$$

$$= 4508 \quad \text{Subtract 100 from 4608.}$$

The area of the photo prop is 4508 square inches.

4.1 Exercises

Vocabulary and Concept Check

- WRITING** What is the area of a polygon? Explain how the perimeter and the area of the polygon are different.
- CHOOSE TOOLS** Construct a parallelogram that has an area of 24 square inches. Explain your method.

Practice and Problem Solving

Find the area of the parallelogram.

- 1.
- 2.
- 3.
- 4.
- 5.
- 6.
- 7.
- 8.

18. T-SHIRT DESIGN You use the parallelogram-shaped sponge to create the T-shirt design. The area of the design is 66 square inches. How many times do you use the sponge to create the design? Draw a diagram to support your answer.

featured resources

Laurie's Notes

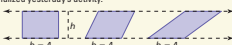
Introduction

Connect

- **Yesterday:** Students derived the formula for the area of a parallelogram. (MP3)
- **Today:** Students will use the formula to find areas of parallelograms.

Motivate

- Draw a sketch similar to the one below. Ask each student to answer: "Which of the shaded figures has the greatest area?" **The areas are all equal.** How students answer this will give insight into how well they have internalized yesterday's activity.



- Ask a student to explain this result. Hopefully the student will talk about cutting off a piece of the parallelogram and moving the piece to form a rectangle that is congruent (the same size and same shape) to the first quadrilateral.

Lesson Notes

Key Idea

- The height of a parallelogram is the perpendicular distance from a base to the opposite side.
- It is very important that students recognize that the height of a parallelogram is NOT a side of the parallelogram, unless the figure is a rectangle or square.
- Try to connect the concept of the height of a parallelogram to the height (altitude) of a kite. The length of the string is north the height of the kite.
- Ask students to think about b and h in the formula as variables, asking them what value(s) they may stand for, getting them to realize that they are ranges of values (> 0).

Example 1

- "What type of units do you use to measure area?" **square units**
- "Why is area measured using square units?" **There are two dimensions with multiplication in the formula, $\text{cm} \times \text{cm} = \text{cm}^2$**
- Review how square units are written: cm^2 , sq cm , or square centimeters.
- **MP6 Attend to Precision:** There is a difference between 168 meters and 168 square meters. Be sure that students are labeling results correctly.
- Begin good habits now. Be explicit in writing the formula, substituting the known values, and computing the answer.

On Your Own

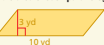
- Students should note that in Question 2 the height is shown outside the parallelogram. The same could have been done for the other two questions.

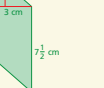
Goal Today's lesson is finding the areas of parallelograms.

Technology for the Teacher

Grades Classroom
Lesson Tutorials
Lesson Plans
Answer Presentation Tool

Extra Example 1
Find the area of each parallelogram.

a. 

b. 

On Your Own

1. 500 m^2
2. 126 in.^2
3. 615 yd^2

Teaching Edition

The **Big Ideas Math** Teaching Edition is unique in its organization. It provides teachers with complete support as they teach the program. Using side-by-side pages, teachers have access to the full student page as they teach. Throughout the books master teacher Laurie Boswell helps teachers implement the Standards for Mathematical Practice. She also shares insights that she has gained through years of teaching experience.

Introduction

Connect

- **Yesterday:** Students derived the formula for the area of a parallelogram. (MP3)
- **Today:** Students will use the formula to find areas of parallelograms.

Laurie's Notes

Introduction

Connect

- **Yesterday:** Students practiced rewriting common geometric formulas. (MP1a, MP3a, MP7)
- **Today:** Students will use the techniques explored yesterday to solve literal equations.

Motivate

- Share with students the following highest and lowest recorded temperatures. The purpose is to pique interest and have students observe that the temperatures are measured in degrees Fahrenheit or degrees Celsius.
- **Highest Recorded Temperatures:** NM 122°F, 50°C, NH 108°F, 41°C, PA 111°F, 44°C
- **Lowest Recorded Temperatures:** NM -50°F, -48°C, NH -47°F, -44°C, PA -42°F, -41°C

Lesson Notes

Discuss

- **MP7 Look for and Make Use of Structure:** When solving literal equations you want students to verbalize the operations represented. For example, when solving $2y + 5x = 6$, students should understand there are two terms. To isolate the $2y$ -term, subtract the term that is being added to it, $5x$. In other words, approach solving $2y + 5x = 6$ for y in the same way as you would solve $2y + 5 = 6$ for y .

Example 1

- Write the definition of literal equation.
- "Can 6 and $5x$ be combined? Explain." **no, they are not like terms.**
- Simplifying the last step is not obvious to all students. Relate it to fractions. You subtract the numerators and keep the same denominator. For example: $\frac{5}{7} - \frac{3}{7} = \frac{5-3}{7}$ and $\frac{6-5x}{2} - \frac{6-5x}{2} = \frac{6-5x-6+5x}{2} = \frac{0}{2} = 0$.

On Your Own

- Notice in Question 2 that the coefficient of y is -4 . Suggest students rewrite the equation as $4x + (-4)y = 1$.

Example 2

- **Teaching Tip:** Highlight the variable l in red as shown in the textbook. Discuss the idea that everything except the variable l must be moved to the left side of the equation using Properties of Equality.
- "The term πr^2 is added to the term $\pi r l$. How do you move it to the left side of the equation?" **Subtract πr^2 from each side of the equation.**
- Discuss the technique of dividing by πr in one step, instead of dividing by π and then dividing by r .

On Your Own

- **Think-Pair-Share:** Students should read each question independently and then work with a partner to answer the questions.

Goal Today's lesson is solving literal equations.

Start Thinking! and Warm Up

Warm Up

Start Thinking!

How does solving the equation $5x + 4y = 14$ for x compare to solving the equation $5x + 2y = 14$ for x ? Describe the steps involved in each solution.

Extra Example 1
Solve the equation $-2x - 3y = 6$ for y .
 $y = -\frac{2}{3}x - 2$

On Your Own

1. $y = 2 + \frac{1}{5}x$
2. $y = x - \frac{1}{4}$
3. $y = 4 - 2x$

Extra Example 2
The formula for the surface area of a square pyramid is $S = l^2 + 2sl$. The formula for the surface area of a cylinder is $S = 2\pi r^2 + 2\pi rl$.

On Your Own

4. $b = \frac{A}{h}$
5. $p = \frac{l}{rt}$
6. $h = \frac{S - 2\pi r^2}{2\pi r}$

T-26

Each student page is accompanied by a support page. Laurie also includes motivation suggestions, questioning strategies, and closure opportunities.

The Teaching Edition also provides Differentiated Instruction, Response to Intervention, and English Language Learner support.

Discuss

- **MP7 Look for and Make Use of Structure:** When solving literal equations you want students to verbalize the operations represented. For example, when solving $2y + 5x = 6$, students should understand there are two terms. To isolate the $2y$ -term, subtract the term that is being added to it, $5x$. In other words, approach solving $2y + 5x = 6$ for y in the same way as you would solve $2y + 5 = 6$ for y .

A full list of program components and prices begins on page 32 >>

featured resources

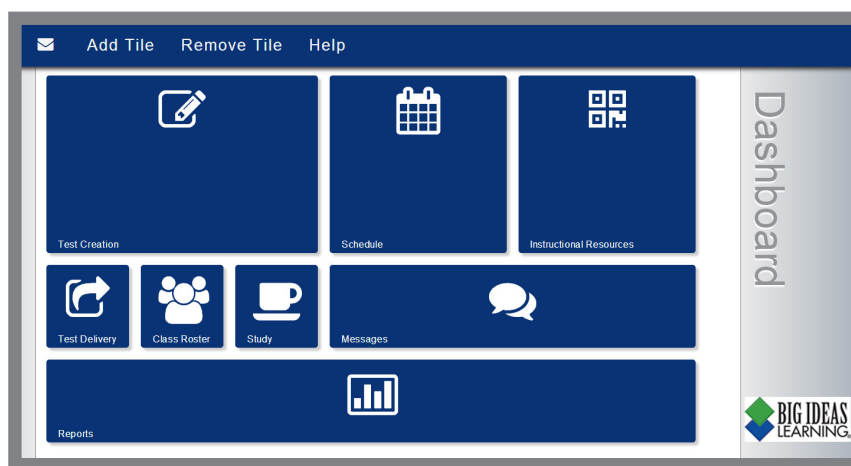
Dynamic Technology

Dynamic Assessment and Progress Monitoring Tool

The Dynamic Assessment and Progress Monitoring Tool allows teachers to know where their students are and monitor their progress as they guide them to where they need to be. Teachers can create tests by Common Core State Standard or **Big Ideas Math** content. This diagnostic and prescriptive tool was developed exclusively for **Big Ideas Math** by Pacific Metrics, the educational technology powerhouse that provides assessment resources to PARCC and the Smarter Balanced Assessment Consortium.*

Feature Highlights

- Assessment Creation and Scheduling
 - Short answer and multiple-choice questions are automatically graded
 - Assign any Exercise for online homework
 - Adaptive testing features
- Direct Ties to Remediation
 - At point of use for students and teachers
- Customizable Reporting
 - Monitor student progress by individual or class
 - Configure reports by assessment or CCSS
- Assessment Delivery with Built-In Tools
 - Students have access to scientific calculators and other embedded tools when enabled
- Easy-to-use, drag-and-drop interface
 - Includes a customizable dashboard and scheduling module



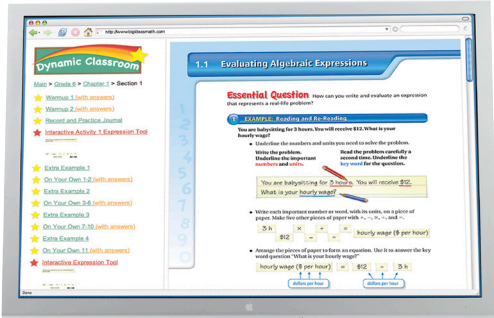
Dynamic Student Edition

The Dynamic Student Edition is available online or as a downloadable eBook App. Students have access to the complete textbook and embedded interactive digital resources, including direct links to remediation and Interactive Investigations. Complete audio of each textbook, Vocabulary Flash Cards, and Lesson Tutorial Videos are included in both English and Spanish. The text can also be accessed offline after it has been downloaded to a student's tablet or other device.

featured resources

Dynamic Teaching Tools

The **Big Ideas Math** program contains a number of support resources for teachers. These Dynamic Teaching Tools include:



Dynamic Classroom

This lesson presentation tool is ready for your interactive whiteboard! At the teacher's fingertips are: chapter openers, Essential Questions, key concepts, step-by-step examples, On Your Own exercises, mini assessments, warm ups, virtual manipulatives, graphic organizers and many elements of the teaching edition.

Answer Presentation Tool

This tool can be used to check homework. Enter the exercise numbers assigned in class and only those answers will show. Complete worked-out solutions appear at the click of a mouse.

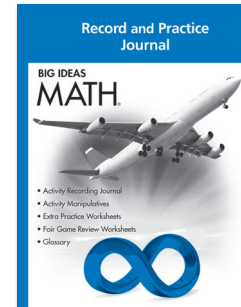
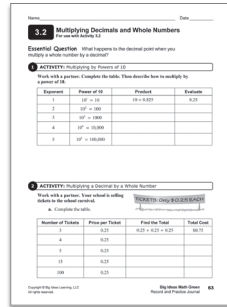
Editable Online Resources

Editable versions of the Student Journal, Assessment Book, and Resources by Chapter ancillaries are available online on the **Big Ideas Math** website. The website also contains complete, editable Lesson Plans for every section of the program.

Lesson Tutorial Videos

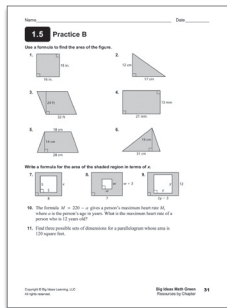
These two- to three-minute lesson tutorials provide colorful visuals and audio support for every example in the textbook. The tutorials are an invaluable resource for students who are absent, who need a second explanation, and who need help with homework. Lesson Tutorials are also available for download onto personal devices.

Print Resources



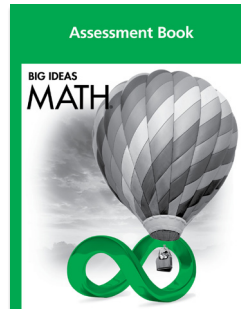
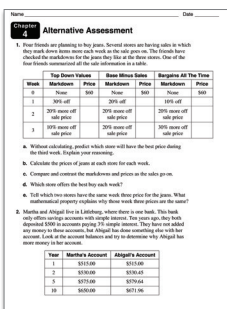
Record and Practice Journal

This student-friendly, all-in-one workbook contains a place to work through and take notes on activities, extra practice, glossary and manipulatives.



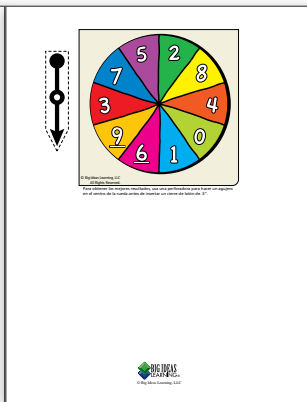
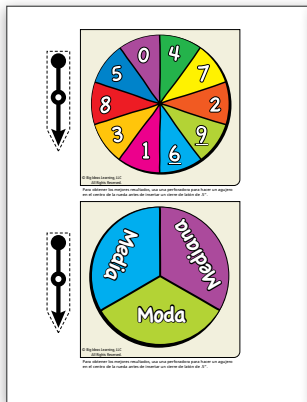
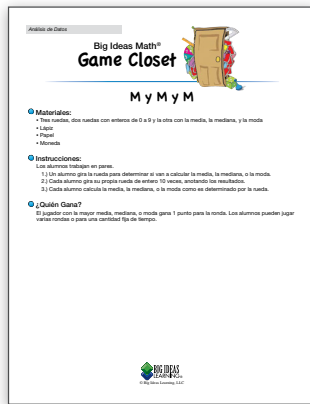
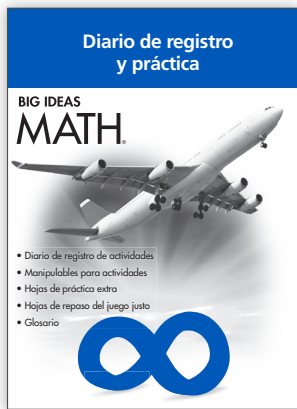
Resources by Chapter

This complete teaching resource contains letters home, activities, practice, projects and much more to provide the teacher with flexibility and the student with quality enrichment.



Assessment Book

The **Big Ideas Math** Assessment Book offers a variety of assessment options. Teachers will find formative and summative assessments, pre-course diagnostic tests, and alternative assessments, standardized test practice with item analysis, quizzes, and end-of-course tests. This rich assessment ancillary is also available in editable form on the **Big Ideas Math** website.



English Language Learner Support

The **Big Ideas Math** program authors recognize that English language learners (ELL) are a highly heterogeneous and complex group of students with diverse gifts, educational needs, backgrounds, and goals. The program incorporates researched-based strategies to specifically assist these learners.

ELL Resources

- Record and Practice Journal in Spanish
- Point-of-use ELL notes in the Teaching Edition
- eBooks with English and Spanish audio
- 14-Language Multilingual Glossary
- Family and Community Letters
- Vocabulary Checks
- Vocabulary Flash Cards

Differentiated Instruction

Through print and digital resources, the **Big Ideas Math** program completely supports the 3-tier RtI model. Using research-based instructional strategies, teachers can reach, challenge and motivate each student with germane, high-quality instruction targeted to individual needs.

Skills Review Handbook

The skills review handbook provides examples and practice to on-level students needing additional support on a particular skill, this handbook provides a visual review of basic skills for students who are struggling or in need of additional support. The simplified approach to this component helps students lacking a basic understanding of a previously learned skill.



featured resources

Continuous Preparation for Assessment

Every section of the **Big Ideas Math** program helps prepare students for success on high-stakes assessments. This program exposes students to multiple representations of problems and question types frequently found on Common Core assessments, including PARCC and Smarter Balanced items.* The balanced approach to instruction also helps students develop the habits of mind required to be successful on high-stakes tests.

The **Activities** that begin each section require students to use higher-level thinking to work through each problem and to explain their reasoning in the solution.

Exercises provide students with opportunities to use multiple approaches to solve problems.

A **Performance Task** is included for every Common Core State Standard. These allow students to work with multiple standards and apply their knowledge to realistic scenarios.

Alternative Assessments provide teachers with the opportunity to assess students on the same content in a variety of ways.

Quizzes and Tests assess the concepts learned in each lesson and help teachers identify areas in which students may need additional support before moving forward.


A **Standards Assessment** is included with every chapter in the program. Questions were carefully chosen to represent problem types and reasoning patterns frequently found on standardized tests.

The **Dynamic Assessment and Progress Monitoring Tool** allows teachers to develop customized practice sets for each student or for an entire classroom.



price list


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Product	ISBN	Price
Student Resource Package		
Record and Practice Journal (1 per year for subscription duration)		
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Student Resource Package 1 year subscription	978-0-544-58372-6	39.00
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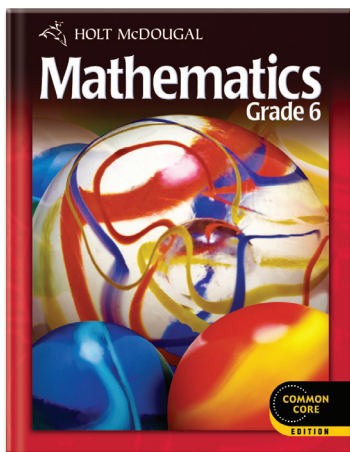
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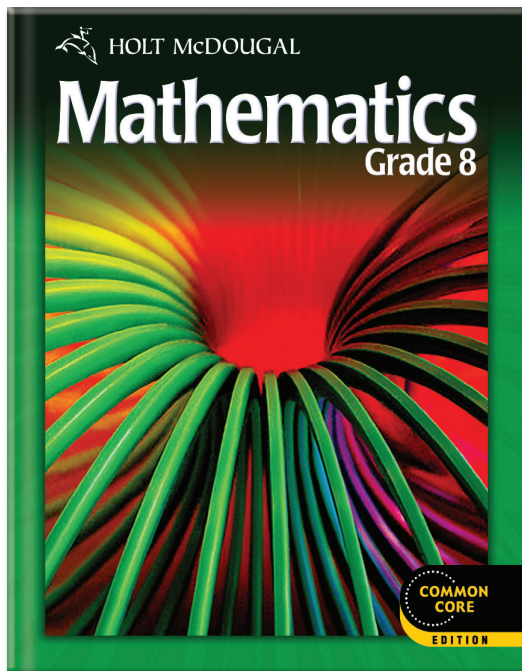
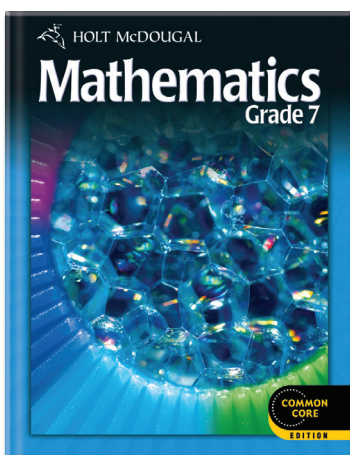
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Algebra 1 © 2014

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Algebra 1 Teaching Edition Online, Dynamic Assessment and Progress Monitoring Tool, Algebra 1 Lesson Plans Online, Algebra 1 Record and Practice Journal Online, Algebra 1 Record and Practice Journal Answer Key Online, Algebra 1 Assessment Book Online, Algebra 1 Worked-Out Solutions Online, Algebra 1 Resources by Chapter Online, Algebra 1 Differentiating the Lesson Online, Algebra 1 Answer Presentation Tool Online, Algebra 1 Dynamic Classroom Online, Skills Review Handbook Online, Basic Skills Handbook Online, Interactive Glossary Online	978-1-608-40504-6	618.00

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Holt McDougal Mathematics



Holt McDougal Mathematics for Grades 6, 7, and 8 offers comprehensive instruction, assessment and intervention tools for complete coverage of the Common Core State Standards. Features throughout the textbook provide opportunities for students to master the Standards for Mathematical Practice.

Grades 6–8 © 2012

Authors: Bennett, Burger, Chard, Kennedy,
Renfro, Roby, Scheer, Waits

hmhco.com/middleschoolmath



The Houghton Mifflin Harcourt Advantage

A Content Revolution

Built for the Common Core State Standards - the new tables of contents for **Holt McDougal Mathematics** reflect fewer concepts that are taught in depth.

A New Priority

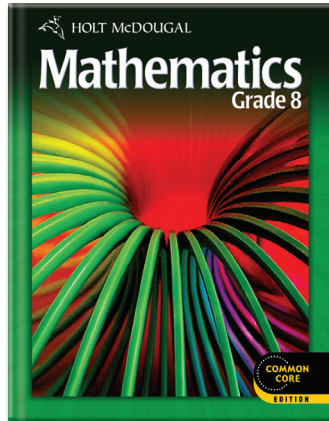
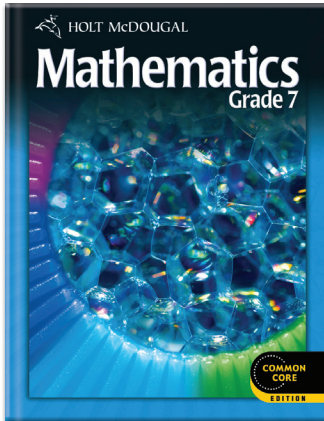
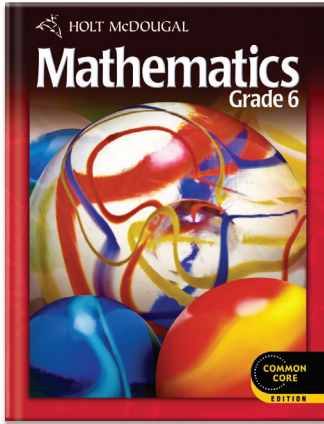
Holt McDougal Mathematics implements the Standards for Mathematical Practice into student learning and teacher instruction resulting in a deeper understanding of math concepts.

Closing the Gap

Embedded math RtI resources within **Holt McDougal Mathematics** ensure every student gets the help he or she needs.

A Customized Math Textbook

Like what you see but not in the order that you want it? Customize your **Holt McDougal Mathematics** textbooks or online textbooks through Custom Solutions.



core texts

Student Edition

Provides practice of all Common Core Standards for Mathematical Content and Standards for Mathematical Practice, and assessment and intervention support needed to reach and teach all students.

Teacher's Edition

Includes teaching strategies, activities, technology tips and more to enhance instruction and help you address the Common Core Standards for Mathematical Content and the Standards for Mathematical Practice.

Interactive Online Edition

Contains the entire Student edition, as well as hundreds of Lesson Tutorial Videos, all student workbooks, investigative activities and practice exercises with immediate feedback regarding performance.

MIDDLE SCHOOL
grades 6–8

table of contents

Grade 6

1. Operations and Properties
2. Introduction to Algebra
3. Decimals
4. Number Theory and Fractions
5. Fraction Operations
6. Data Collection and Analysis
7. Proportional Relationships
8. Measurement and Geometry
9. Integers and Rational Numbers
10. Functions

Grade 8

1. Rational Numbers
2. Graphs and Functions
3. Exponents and Roots
4. Ratios, Proportions, and Similarity
5. Geometric Relationships
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7. Multi-Step Equations
8. Graphing Lines
9. Data, Prediction, and Linear Functions

Grade 7

1. Algebraic Reasoning
2. Integers and Rational Numbers
3. Applying Rational Numbers
4. Proportional Relationships
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7. Collecting, Displaying, and Analyzing Data
8. Geometric Figures
9. Measurement and Geometry
10. Probability
11. Multi-Step Equations and Inequalities

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spacemath.gsfc.nasa.gov/media.html

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Holt McDougal Mathematics

featured resources

Intervention Rtl tiers 1, 2

Skill 9 Prime Numbers

Using Skill 9
OBJECTIVE Identify whether or not a whole number is prime.

Begin by discussing the definition of a prime number. Emphasize that a prime number has only two factors: 1 and the number itself.

Provide an example. The number 9 is prime because it has only two factors, 1 and 3. There is no other whole number that is a factor of 9. The only two whole numbers that have a product of 9 are 1 and 9.

Ask students: Is the number 4 a prime number? (no) Explain. (It has more than two factors: 1, 2, 4, and 8. So, 1, 2, and 4 are factors of 4.)

Direct students' attention to Step 1. Ask: Why do you divide 11 by 2? (You divide to find out if 2 is a factor of 11.) In 2 a factor of 11? Explain. (No, 2 does not divide 11 evenly, there is a remainder.)

Refer to Step 2. Ask: Why do you stop dividing after testing 5 as a factor of 11? (You can stop dividing when divisor and quotient equal.)

If necessary, have students divide 11 by the remaining whole numbers—7, 9, 10, 11—so that they can discover for themselves that the only possible factors are 1 and 11.)

TRY THESE
Exercises 1–3 provide practice in identifying prime numbers.

- Exercise 1: 3 prime
- Exercise 2: not prime

PRACTICE ON YOUR OWN Review the example at the top of the page. Have students explain the testing process used to determine whether a number is prime. Ask: Why is 2 the only number tested? (Once 2 is a factor, then 1 and 14 are not the only factors; the test is over—14 cannot be a prime number with more than 2 factors.) Exercises 1–4 provide the same format as was used in the Try These exercises.

CHECK Determine if students can identify prime numbers.

Success is indicated by 3 out of 3 correct responses.

COMMON ERRORS

- Students may reach an incorrect conclusion when dividing because they do not know their basic facts.
- Students may stop dividing too soon, before a divisor already tested is repeated as the quotient.

Students who made more than 2 errors in the Practice on Your Own, or who were not successful in the Check section, may benefit from the Alternative Teaching Strategy on the next page.

Holt McDougal Mathematics 45

Are You Ready? Intervention and Enrichment

Mathematics Grade 6

HOLT McDUGAL

- Diagnostic Assessment
- Alternative Teaching Strategies
- Skill Intervention
- Skill Sheets with Practice
- Enrichment
- Answer Key

Also available on the Teacher One Stop™ and Online

COMMON CORE EDITOR

Are You Ready? Intervention and Enrichment Provides direct instruction and scaffolded practice worksheets for students in need of basic skill review, along with enrichment worksheets for those ready to move on.

Ready to Go On? Intervention and Enrichment Offers skill and problem-solving intervention worksheets to address student weaknesses before they are given summative tests, along with enrichment worksheets for those ready to move on.

Questioning Strategies

2 Ratios, Proportions, and Similarity

EXAMPLE 1

- When are two ratios proportional? When their cross products are equal.
- If the cross products are not equal, are the ratios proportional? no
- How do you find cross products? Multiply the numerator of each fraction and the denominator of the other fraction.
- In Example A, what do the answers help you do? Multiply the correct numbers.
- In Example B, what must be true in order to get the correct shade of paint? The ratios must be proportional.

EXAMPLE 2

- What information is given in the problem? For most people, the ratio of the length of the head to the total height is 1:7. A person is 56 inches tall.
- What does the problem ask you to find? The length of the person's head.
- What does a represent in the proportion? The length of the person's head.
- Why do you multiply both sides of the proportion by 56? To isolate the variable on one side of the equation.
- How can you check the answer? Check to see if the ratios $\frac{1}{7}$ and $\frac{8}{56}$ are equivalent ratios.

EXAMPLE 3

- What information is given about the helicopter? It travels 20 miles in 20 minutes.
- What does the problem ask you to find? How long it will take the helicopter to reach a fire that is 60 miles away.
- How long does it take the helicopter to travel 50 miles? Why? 40 minutes. Since the helicopter travels 25 miles in 20 minutes, it can travel 50 miles in 40 minutes.
- In the situation, what does each ratio compare? A distance to a time.
- What does x represent? The time it takes the helicopter to travel 60 miles.
- How do you solve for x? Find cross products, then divide both sides by 25.
- How long would it take the helicopter to travel 120 miles? 96 minutes.

EXAMPLE 4

- What information is given in this problem? Lee is reading a novel with 274 pages. She has already read 122 pages in 6 days.
- What does the problem ask you to find? The number of additional days it will take her to finish reading the novel.
- What does x represent? The number of days it takes to read the entire novel.
- Once you find the value of x, what do you need to do to solve the problem? Subtract 6 from x to find the number of additional days needed to finish reading the novel.
- How can you tell that the answer is reasonable? Possible answer: Lee has read about $\frac{1}{2}$ of the novel in 6 days, so it should take around 12 days to read the remaining $\frac{1}{2}$ of the novel. The answer, 11 days, is close to 12.

Holt McDougal Mathematics 28

Holt McDougal Mathematics 29

Questioning Strategies

Provides questions designed for the Standards for Mathematical Practice that help students develop depth of knowledge of the key concepts. Intervention is then recommended when needed throughout this resource.

Differentiated Instruction

Success for Every Learner Teacher Support

24 Equations and Their Solutions

Steps for Success

Step 1 Begin the lesson by making sure that all students understand the best of the lesson opener by using the following procedure:

- **Review** students how a balance scale works. Tell them that weights are placed on each pan. If the weights are equal, the pans remain at the same height. However, if one weight is heavier than the other, the heavier weight will force its pan lower than the other pan. The balance scale is used as a symbol to show when two quantities are equal or not equal.
- **Review** the terms equation and solution. Differentiate between variable and solution. The variable, which is represented by a letter, is a quantity that can change. A solution is a quantity that replaces the variable in an equation to make a true statement.

Step 2 Teach the lesson.

Step 3 Explain to students that they can check whether a given solution to an equation by inserting it into the equation. The statement is true, the value is a solution. If it is false, it is not a solution. Use the first equation, $a + 15 = 27$, as an example.

Step 4 Ask the students to complete the worksheet for Problem 1 on the worksheet.

Step 5 Ask the students to explain the difference between expression and an equation.

Step 6 Ask the students to complete the worksheet for Problem 2 on the worksheet.

Step 7 Think and Discuss supports the problems on the worksheet.

Making Connections

- Review the symbols used with equations by directing the Reading Math box in the student textbook. Remind the student that the symbol $=$ means "is equal to." The equation shows that the two sides of the equation are not equal to each other. The symbol \neq means "is not equal to." The symbol $>$ means "is greater than" and the symbol $<$ means "is less than." Example 2 enables students to convert the time from minutes to hours and vice versa.

Success for Every Learner

Mathematics Grade 6

HOLT McDUGAL

- Content Concepts Presented in a More Visual Format
- Teacher Support
- Student Worksheets
- Answer Key

Also available on the Teacher One Stop™ and Online

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Student Worksheet

24 Equations and Their Solutions

Problem 1

Is 61 a solution? $a + 23 = 82$

$61 + 23 = 82$ Replace a with 61.

$84 = 82$

These are NOT equal. 61 is NOT a solution.

Substitute $f = 19$. Use the equation to solve for h in inches.

$7f + 23h = 228$

$7(19) + 23h = 228$

$133 + 23h = 228$

These are equal. The measures on the same side of the balance are equal.

19 is not a solution of Problem 1?

19 feet is the same length as 228 inches?

Holt McDougal Mathematics 20

Success for Every Learner

Provides an alternate practice worksheet using a visual approach, along with strategies for differentiated instruction, for each lesson and is ideal for English Language Learners as well as other students.

I.D.E.A. Works!® Modified Worksheets and Tests

Features modified practice and problem-solving worksheets for every lesson and modified quizzes and tests for every chapter, along with flashcards, to accommodate I.D.E.A. (Individuals with Disabilities Education Act—guarantees that children with disabilities have the right to receive specially designed instruction).

Chapter Resources

Contains three levels of practice worksheets for every lesson, plus reteaching tools, challenges, problem solving, reading strategies, math puzzles, parent letters, and family involvement activities.

Lab Activities

Provides additional hands-on and tech lab activities that integrate and introduce students to the Standards for Mathematical Practice.

Alternate Openers: Explorations

Open each lesson with a Standard for Mathematical Practices through Modeling or using appropriate tools strategically.

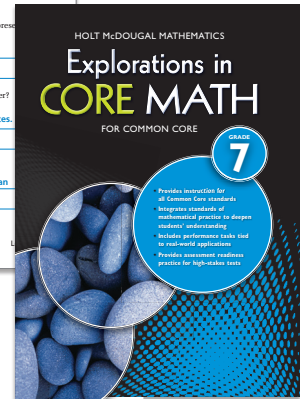
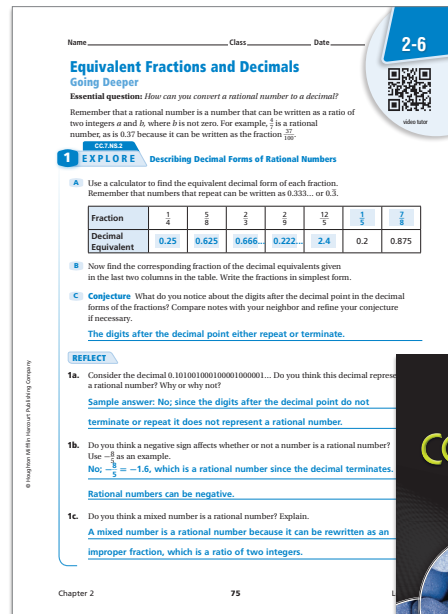
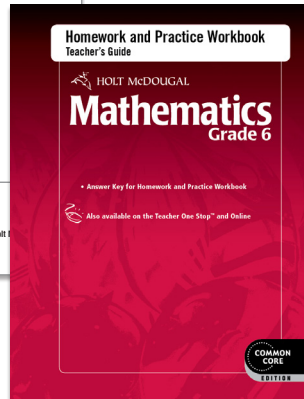
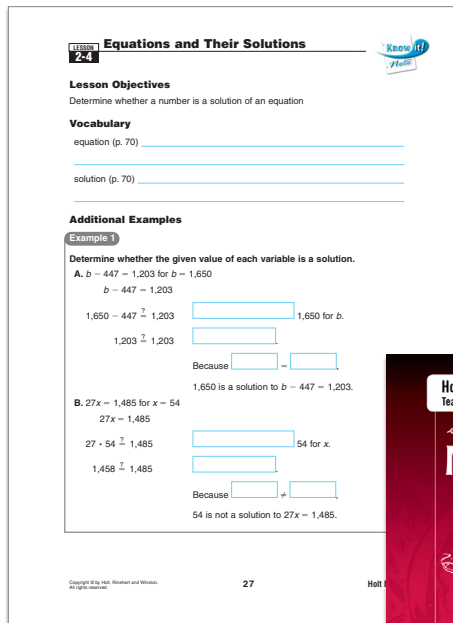
Rtl tier 1

Rtl tier 2



featured resources

Workbooks



MIDDLE SCHOOL
grades 6–8

Know-It Notebook™

Provides a notetaking format for students that mirrors every example in the textbook, as well as helps students organize their thinking and study for quizzes and tests.

Know-It Notebook Teacher's Guide

Helps teachers demonstrate strategies as students take notes in their own guide (also available online as transparencies).

Homework and Practice Workbook

Provides additional practice for the skills taught in each lesson of the textbook.

Problem Solving Workbook



Offers students more opportunities to develop with every lesson of the textbook the Standards for Mathematical Practices of making sense of problems and persevere in solving them.

Explorations in Core Math

Provides guided discovery lessons, scaffolded guided practice and additional independent Practice and Problem Solving as well as Assessment Readiness so that students master important skills and develop expertise in modeling with the mathematics.

Explorations in Core Math Teacher's Edition

Provides convenient professional development information and full teaching support for every lesson, including notes for incorporating "Teaching Strategies", helping students "Avoid Common Errors", providing "Universal Access", and making the "Technology Connection". Lesson introductions include standards explanations, prerequisite skills, and important "Math Background" information. Questioning Strategies are included to use with lesson examples.

Holt McDougal Mathematics

A full list of hearts from a program components and prices begins on page 40 >>

Additional Resources

Name _____ Date _____ Class _____

7.SP.5

SELECTED RESPONSE
Match the chance event with the description of the probability of the event.

1. A spinner with 8 equal sections labeled 1 through 8 landing on a number less than 9
 2. Flipping a fair coin and having the coin land with the tails side facing up
 3. Picking a green ball from a bag containing 99 green balls and 1 red ball
 4. Rolling a number greater than 6 on a number cube with sides numbered 1 through 6
 5. Picking the 4 of hearts from a standard deck of playing cards

Select the correct answer.

6. A game show has a contestant pick one of five doors to reveal the prize the contestant wins. A photo of a new car is behind one of the doors and gag prizes are behind the others. Which statement best describes the probability of winning the new car?
 (A) 0
 (B) Closer to 0 than to 1
 (C) Closer to 1 than to 0
 (D) 1

7. Which event is most likely to occur?
 (A) An event with probability 0.1
 (B) An event with probability 0.3
 (C) An event with probability 0.5
 (D) An event with probability 0.7

Select all correct answers.

8. Which of the following cannot be the probability of a chance event?
 (A) -0.1
 (B) 0
 (C) 0.5
 (D) 1
 (E) 1.1

9. Which of the following chance events have probabilities of occurring that are $\frac{1}{2}$?
 (A) Rolling a 1 on a fair number cube with sides numbered 1 through 6
 (B) Rolling an odd number on a fair number cube with sides numbered 1 through 6
 (C) A spinner with 4 equal sections labeled 1, 2, 3, and 4 landing on 1 or 4
 (D) A spinner with 4 equal sections labeled 1, 2, 3, and 4 landing on a number less than 5
 (E) Flipping a fair coin and having the coin land with the heads side facing up
 (F) Flipping a fair coin and having the coin land with the tails side facing up

CONSTRUCTED RESPONSE

10. Describe a chance event that has a probability of 0 and a chance event that has a probability of 1.

Table of content objectives student practice by Common Core domain and standard and includes complete student reading

Share exercises and extended response questions develop higher-order thinking skills and integrate the Mathematical Practice standards

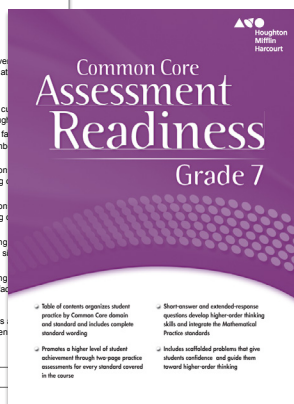
Promote a higher level of student achievement through two-page practice assessments for every standard covered in the course

Share exercises and extended response questions develop higher-order thinking skills and integrate the Mathematical Practice standards

Includes scaffolded problems that give students confidence and guide them toward higher-order thinking

Common Core Assessment Readiness Grade 7

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TEACHING TRANSPARENCY

2-2 Translating Between Words and Math

Operation	+	-	×	÷
Numerical Expression	$37 + 28$	$90 - 12$	8×48 or $8 \cdot 48$ or $(8)(48)$ or $8(48)$ or $18(48)$	$327 \div 3$ or $\frac{327}{3}$
Words	<ul style="list-style-type: none"> 28 added to 37 37 plus 28 the sum of 37 and 28 28 more than 37 	<ul style="list-style-type: none"> 12 subtracted from 90 90 minus 12 the difference of 90 and 12 12 less than 90 take away 12 from 90 	<ul style="list-style-type: none"> 8 times 48 48 multiplied by 8 the product of 8 and 48 8 groups of 48 	<ul style="list-style-type: none"> 327 divided by 3 the quotient of 327 and 3
Algebraic Expression	$x + 28$	$k - 12$	$8 \cdot w$ or $(8)(w)$ or $8w$	$n \div 3$ or $\frac{n}{3}$
Words	<ul style="list-style-type: none"> 28 added to x x plus 28 the sum of x and 28 28 more than x 	<ul style="list-style-type: none"> 12 subtracted from k k minus 12 the difference of k and 12 12 less than k take away 12 from k 	<ul style="list-style-type: none"> 8 times w w multiplied by 8 the product of 8 and w 8 groups of w 	<ul style="list-style-type: none"> n divided by 3 the quotient of n and 3

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DAILY TRANSPARENCY

2-3 Translating Between Tables and Expressions

Warm Up
Name the next three terms in each sequence.

1. 7, 10, 13, 16, , ,

2. 105, 88, 71, 54, , ,

3. 64, 128, 256, 512, , ,

Problem of the Day
Sam's house is 3 blocks east and 5 blocks south of Tyra. If Tyra walks straight south and then straight east to Sam's house, does she walk more blocks east or more blocks south? How many more?

Scott's Age	Ray's Age
11	15
12	16
13	17
x	<input type="text"/>

Lesson Quiz

1. Write an expression for the missing value in the table.

Position	1	2	3	n
Value of term	8	16	24	<input type="text"/>

2. Write an expression for the sequence in the table.

Width (in.)	Length (in.)	Area (in. ²)
7	4	28
7	5	35
7	6	42
7	ℓ	<input type="text"/>

3. A rectangle has a width of 7 in. The table shows the area of the rectangle for different lengths. Write an expression that can be used to find the area of the rectangle when its length is ℓ .

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Assessment Resources

Includes quizzes, leveled tests in both free-response and multiple-choice formats, and other assessments.

Assessment Readiness Workbook

Provides two-page practice assessments for every standard covered in the course as well as short-answer and extended-response questions to assist in developing higher-order thinking skills and integrate the Mathematical Practice standards.

Assessment Readiness Workbook Teacher Guide

Provides answers for all Selected Response items and worked-out solutions for all Constructed Response items

Classroom Manipulatives Kit

Contains class sets of base ten blocks, number cubes, spinners, algebra tiles, rulers, tape measures, colored pencils, two- and six-color counters, protractors, pattern blocks, compasses, fraction bars, mirrors, play money, Geoboards, centimeter cubes, and tangrams.

Teacher's Manipulatives Kit

Contains base ten blocks, spinner, algebra tiles, two-color counters, fraction bars, compass, protractor, Geoboard, pattern blocks, and tangrams that can be used on an overhead projector.

Lesson Transparencies

Contains daily transparencies and teaching transparencies including Warm Ups and Lesson Quizzes. (available online only)

Solutions Key

Contains solutions to exercises, quizzes, and tests in the Student Edition.

Multilingual Glossary

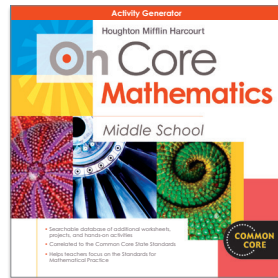
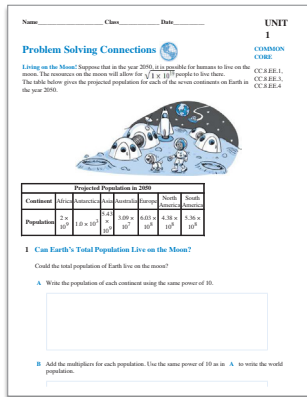
Contains translations of key mathematical terms in Armenian, Arabic, Cantonese, English, Hmong, Khmer, Korean, Punjabi, Russian, Spanish, Tagalog, Urdu, and Vietnamese.

Chapter Resources

Contains three levels of practice worksheets for every lesson, plus reteaching tools, challenges, problem solving, reading strategies, math puzzles, parent letters, and family involvement activities.

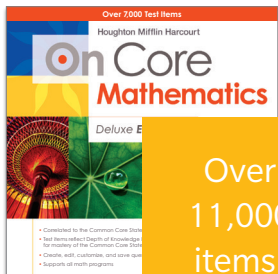
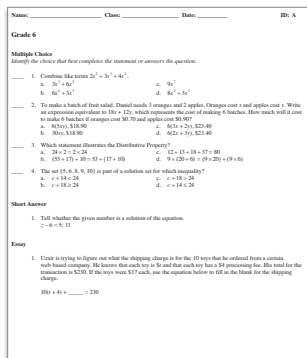
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Technology



On Core Mathematics Middle School Activity Generator CD-ROM

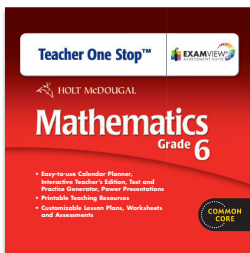
Contains a searchable database of additional investigations and projects correlated to the Common Core State Standards. The Activity Generator helps teachers focus on the Standards of Mathematical Practice.



Over 11,000 items!

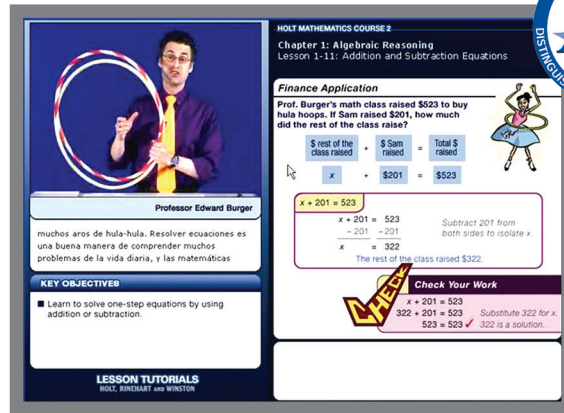
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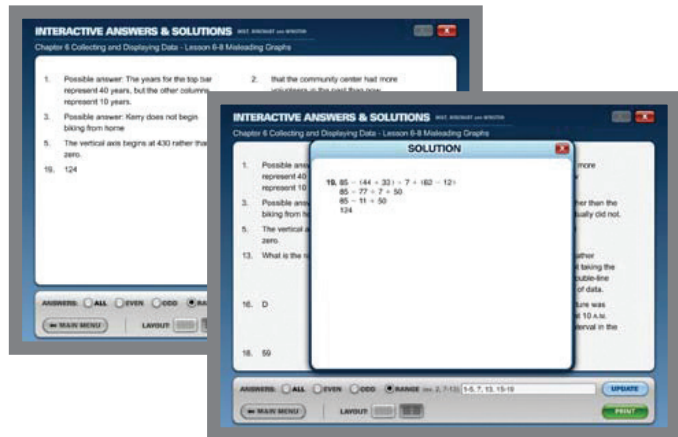
Teacher One Stop™ DVD-ROM

Contains editable worksheets, customizable lesson plans, and editable PowerPoint® presentations for every lesson, along with ExamView Assessment Suite, Calendar Planner, TechKeys®, transparencies, and all Teacher's Edition pages.



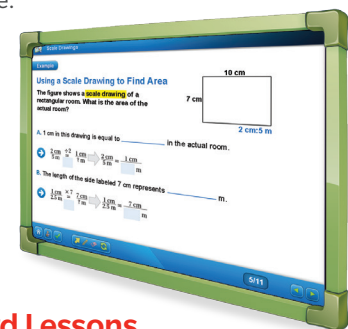
Lesson Tutorial Videos DVD-ROM

Offers a personal, take-home tutor for students that features hundreds of entertaining and engaging videos with direct instruction for every example in the textbook (Spanish closed captioning available).



Interactive Answers and Solutions CD-ROM

Enables teachers to customize and project answer keys for specific assignments and display any of over 8,000 complete, stepped-out solutions at the click of a mouse.



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Easy to use interactive whiteboard lessons that help teachers develop their technology integration skills, refine their teaching strategies, and effectively manage their time. These lessons integrate renowned math instruction with interactive whiteboards and Student Response Systems to bring real-world mathematics to life and make learning relevant and FUN!

MIDDLE SCHOOL
grades 6-8



Holt McDougal Mathematics

price list



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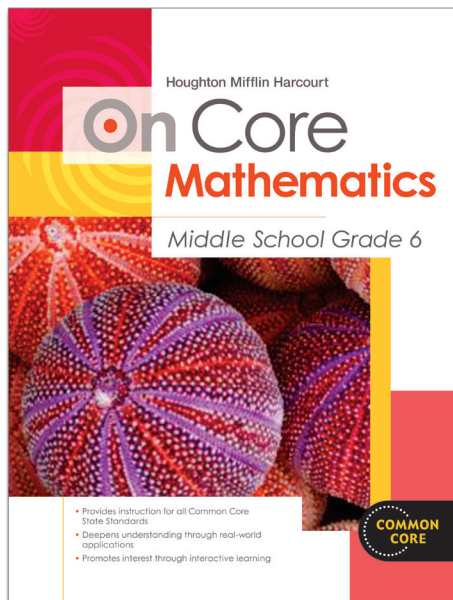
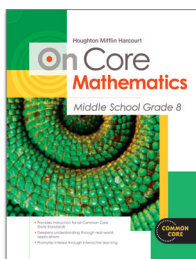
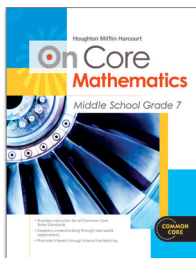
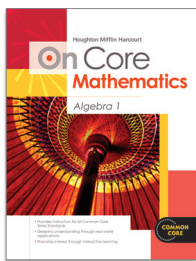
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 Interactive Online Edition, 1-year	978-0-547-68762-9	24.00
Teacher Edition	978-0-547-64721-0	143.73
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Lab Activities with Answers	978-0-547-68681-3	88.27
Problem Solving Workbook Teacher's Guide	978-0-547-68672-1	16.80
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eTextbook		
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Holt McDougal Mathematics © 2012 Grade 7

Product	ISBN	Price
Texts		
Student Edition	978-0-547-64717-3	96.00
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eTextbook		
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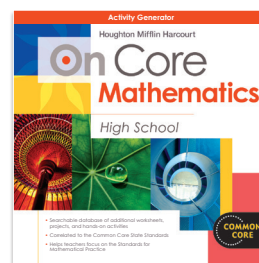
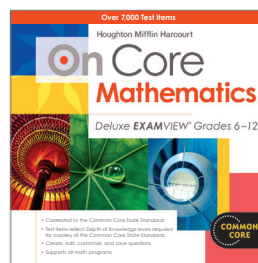
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eTextbook		
 Student Edition eTextbook ePub 1-year	978-0-544-04599-6	18.65



On Core Mathematics

Houghton Mifflin Harcourt *On Core Mathematics* for Grades 6–12 is an innovative instructional solution that develops students’ understanding of the Common Core State Standards in an interactive format while addressing the Standards for Mathematical Practice.



Grades 6–12 © 2012

hmhco.com/oncoremath



The Houghton Mifflin Harcourt Advantage

Complete Coverage of Common Core State Standards

Provides comprehensive instruction for all Common Core State Standards and strategies to integrate the Standards for Mathematical Practice daily.

Student Engagement

Promotes students’ interest through interactive learning style.

Real-World Relevance

Deepens student’s understanding through real-world applications.

Flexible Integration

Can be easily integrated into your current core program to make it Common Core ready.

featured resources

Technology Lab

Finding Square Roots

If you know the area of a square or circle and need to find the length of the side or the radius, you can find your answer by using square roots.

Activity

The area of a square is 289 cm^2 . What is the length of a side?

$$s = \sqrt{289}$$

On your graphing calculator use the following keystrokes to find the square root:

2nd **√** **289** **=**

The length of a side is 17 cm.

The area (A) of a circle is 520 cm^2 . What is the radius of the circle?

$$A = \pi r^2 \quad r = \sqrt{\frac{A}{\pi}} = \sqrt{\frac{520}{\pi}} \approx \sqrt{165.52} \approx 12.87$$

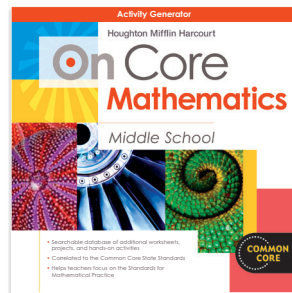
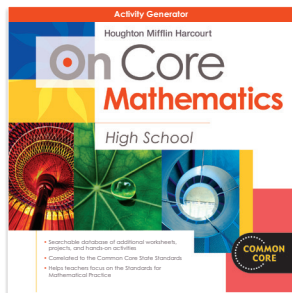
On your calculator use the following keystrokes:

2nd **π** **÷** **520** **÷** **π** **√** **=**

The radius is about 12.87 cm.

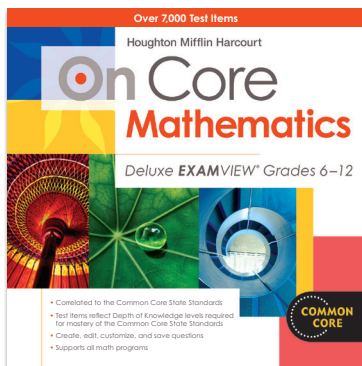
Think and Discuss

1. Enter π on your calculator. Is π a rational number? Explain why or why not.
2. Use your calculator to find the square root of π . Is the number you see in your display the actual square root or an approximate square root? How do you know?



On Core Mathematics Activity Generator CD-ROM

Searchable database of additional worksheets, projects, hands-on activities, and calculator-based labs that are correlated to the Common Core State Standards and help teachers focus on the Standards for Mathematical Practice.



Over 11,000 items!

On Core Mathematics Deluxe ExamView® 6-12 Assessment Suite CD-ROM

The Deluxe *On Core ExamView 6-12 Assessment Suite* has the latest software and over 11,000 items written to all DOK levels and organized by 6-12 CCSS. Provide additional standards-based practice; dip down to a Tier 3 level for skills remediation; or prepare for new formats on the Common Core assessments.

Interact

Students actively participate in every aspect of a lesson. This interactivity promotes a deeper understanding of the mathematics.

Name _____ Class _____ Date _____

1-2

Dividing Fractions

Essential question: *How do you divide fractions?*

1 EXPLORE Modeling Fraction Division

You have $\frac{3}{8}$ cup of salsa for making burritos. Each burrito requires $\frac{1}{8}$ cup of salsa. How many burritos can you make?

To find the number of burritos that can be made, you need to determine how many $\frac{1}{8}$ s are in $\frac{3}{8}$.

How many $\frac{1}{8}$ s are there in $\frac{3}{8}$? _____

You have enough salsa to make _____ burritos.

REFLECT

1a. Division can be checked by using multiplication. What would you multiply to check your answer above?

TRY THIS!

1b. How many burritos could you make with $\frac{1}{2}$ cup of salsa? _____

1c. Five people share $\frac{1}{2}$ pound of chocolate equally. How much chocolate does each person receive? _____ pound

Unit 1 7 Lesson 2

MIDDLE SCHOOL
grades 6-12

Reflect

Reflect questions challenge students to think about the mathematics that they are studying and share their understanding with the class.

4 EXAMPLE Writing Equations for Quadratic Functions

Write the equation for the quadratic function whose graph is shown.

4a. Complete the given graph to the graph of the parent function $f(x) = x^2$. Complete the table below to describe how the parent function must be translated to get the graph shown here.

Type of Translation	Number of Units	Direction
Horizontal Translation		
Vertical Translation		

4b. Determine the values of h and k for the function $g(x) = (x - h)^2 + k$.

- h is the number of units that the parent function is translated horizontally. For a translation to the right, h is positive; for a translation to the left, h is negative.
- k is the number of units that the parent function is translated vertically. For a translation up, k is positive; for a translation down, k is negative.

So, $h =$ _____ and $k =$ _____. The equation is _____.

REFLECT

4a. What can you do to check that your equation is correct?

4b. If the graph of a quadratic function is a translation of the graph of the parent function, explain how you can use the vertex of the translated graph to help you determine the equation for the function.

4c. Error Analysis A student says that the graph of $g(x) = (x + 2)^2 + 1$ is the graph of the parent function translated 2 units to the right and 1 unit up. Explain what is incorrect about this statement.

Unit 7

On Core Mathematics

Connect

Problem-solving connections help students pull together the mathematical concepts and skills taught in the unit and apply them to real-world situations.

Name _____ Class _____ Date _____

UNIT 1

Problem Solving Connections

Welcome Back! Elizabeth is an event planner who has been hired to plan a class reunion. The class has 275 people and 256 will be attending. Elizabeth must plan the seating, decorations, and food. She then needs to determine how much to charge each guest so that all costs are covered.

COMMON CORE
CC.8.EE.1
CC.8.EE.2
CC.8.EE.3
CC.8.EE.4

QTC: An scaled at 50%

1 Seating

The cost sheet shows the types of tables available, the cost per table, and the cost per tablecloth.

Type of Table	Seats	Cost per Table (\$)	Cost per Tablecloth (\$)
Round	8	5.00	3.75
Rectangular	12	7.50	4.35

A. How many round tables would be necessary to seat all of the guests?

B. How many rectangular tables would be necessary to seat all of the guests?

C. Which table, round or rectangular, would be cheaper for the reunion? How much cheaper?

D. A name card will be placed at each seat. Elizabeth finds that 36 name cards come in a package. How many packages will she need? Explain.

Unit 1 29 Problem Solving Connections



Interactive Whiteboard Lessons

Easy to use interactive whiteboard lessons that help teachers develop their technology integration skills, refine their teaching strategies, and effectively manage their time. These lessons integrate renowned math instruction with interactive whiteboards and Student Response Systems to bring real-world mathematics to life and make learning relevant and FUN!

Practice

On Core Mathematics integrates the Standards of Mathematical Practice throughout the students' learning, helping students master both content and practice standards.

PRACTICE

Use a number line to find each sum.

1. $3 + (-8) =$ _____

2. $-1\frac{1}{2} + (-2\frac{1}{2}) =$ _____

3. $-4 + 9 =$ _____

4. $\frac{1}{2} + (-\frac{3}{2}) =$ _____

5. _____

6. _____

7. _____

8. _____

Tell what sum is modeled on each number line. Then find the sum.

9. $-31 + 16 =$ _____

10. $-15.3 + (-12.1) =$ _____

11. $2\frac{1}{2} + (-5\frac{1}{2}) =$ _____

12. $-40 + (-18) + 40 =$ _____

13. $15 + (-22) + 9 =$ _____

14. $-1 + 1 + (-25) =$ _____

15. Describe a real-world situation that can be represented by the expression $-10 + (-2)$. Then find the sum and explain what it represents in terms of the situation.

16. A contestant on a game show has 30 points. She answers a question correctly to win 15 points. Then she answers a question incorrectly and loses 25 points. What is the contestant's final score?

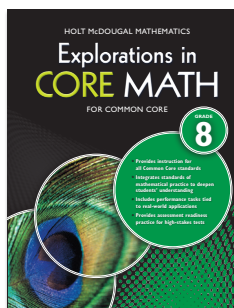
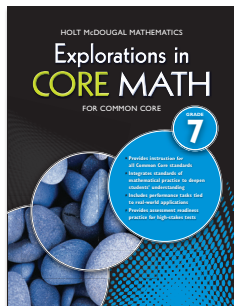
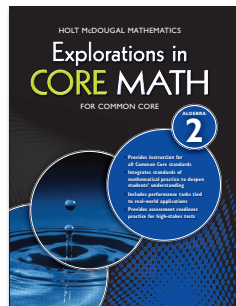
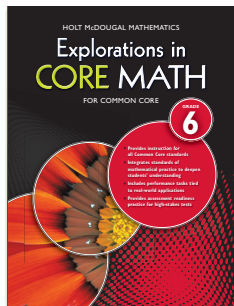
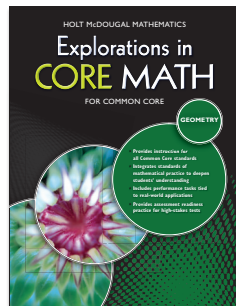
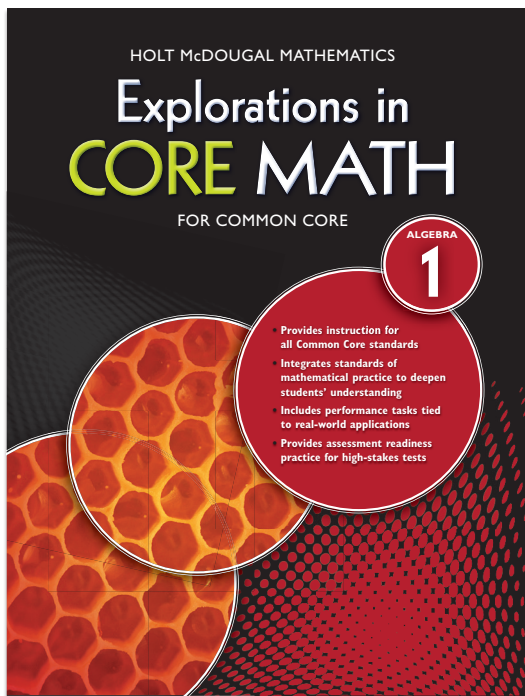
17. **Error Analysis** A student evaluated $-4 + x$ for $x = -9$ and got an answer of 5. What might the student have done wrong?

Unit 1 10 Lesson 2

price list

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Product	ISBN	Price
Middle School		
Grade 6 Student Workbook	978-0-547-57524-7	8.33
Grade 7 Student Workbook	978-0-547-57525-4	8.33
Grade 8 Student Workbook	978-0-547-57526-1	8.33
Grade 6 Teacher's Guide	978-0-547-61745-9	34.67
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Algebra 1 Student Workbook	978-0-547-57527-8	8.33
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Geometry Student Workbook	978-0-547-57530-8	8.33
Geometry Teacher's Guide	978-0-547-61724-4	34.67
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Explorations in Core Math

Holt McDougal *Explorations in Core Math* for grades 6–12 is designed to provide strong Common Core support for teachers and students who are implementing the new Common Core State Standards.

MIDDLE SCHOOL
grades 6–12

The Houghton Mifflin Harcourt Advantage

Aligned to the Common Core State Standards

The Teacher Editions contain correlations of the full program to the new Common Core State Standards in every unit.

Ease of Use and Accessibility for Teachers

The *Holt McDougal Explorations in Core Math* program makes it easy to incorporate new Common Core content and mathematical practices into existing curricula.

Assessment Readiness

Every unit concludes with a section of Assessment Readiness test preparation practice that features selected response, constructed response and extended response items.

Grades 6–12 © 2014

hmhco.com/explorationsincoremath



Explorations in Core Math

A full list of program components and prices begins on page 47 >>

program description

The **Holt McDougal Explorations in Core Math** program is designed to provide a strong Common Core support for teachers implementing the new Common Core State Standards. Unique lesson design helps focus students' attention on the important Standards for Mathematical Practice, too.

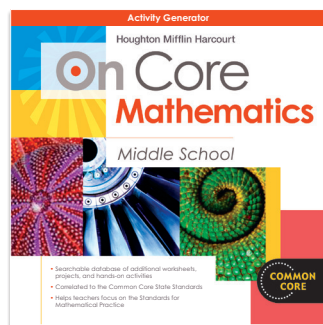
Student Edition

Units in the Student Editions open with an introduction to the new Standards and Key Vocabulary in the "Unpacking the Standards" section. Guided-discovery lessons help students develop conceptual understanding and include "Essential Questions" and "Reflect" prompts. Lessons are followed with scaffolded guided practice, and then additional independent Practice and Problem Solving, so that students master important skills and develop expertise in modeling with the mathematics. Every unit closes with three or four leveled Performance Tasks followed by an extended "Problem Solving Connection" modeling opportunity. Every unit concludes with a section of Assessment Readiness test preparation practice that features selected response, constructed response and extended response items.

Teacher Edition

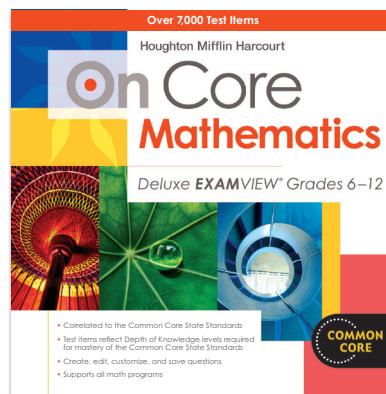
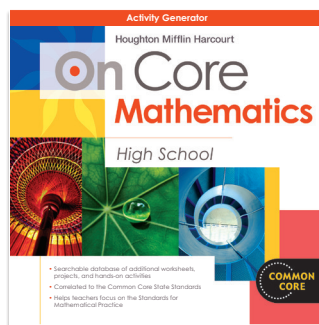
The Teacher Editions provide convenient professional development information that explains the Common Core Content Standards and the Standards for Mathematical Practice. Full teaching support is provided for every lesson, including notes for incorporating "Teaching Strategies" helping students "Avoid Common Errors", providing "Universal Access", and making the "Technology Connection". Lesson introductions include standards explanations, prerequisite skills, and important "Math Background" information. Questioning Strategies are included to use with lesson examples. Lessons close with a "Summarize" prompt. "Highlighting the Standards" strategies are often included to help teachers focus on the Standards for Mathematical Practice. As units close with Assessment Readiness, the Teacher's Editions provide item correlations and item analyses for diagnosing student errors, and are useful for teaching test-taking strategies.

featured resources



On Core Mathematics Activity Generator CD-ROM

Searchable database of additional worksheets, projects, hands-on activities, and calculator-based labs that are correlated to the Common Core State Standards and help teachers focus on the Standards for Mathematical Practice.



On Core Mathematics Deluxe ExamView® 6-12 Assessment Suite CD-ROM

The Deluxe **On Core ExamView 6-12 Assessment Suite** has the latest software and over 11,000 items written to all DOK levels and organized by 6-12 CCSS. Provide additional standards-based practice; dip down to a Tier 3 level for skills remediation; or prepare for new formats on the Common Core assessments

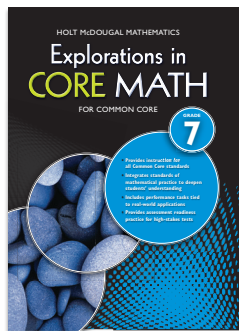
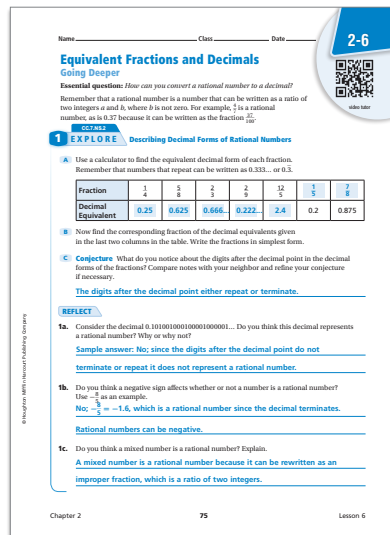
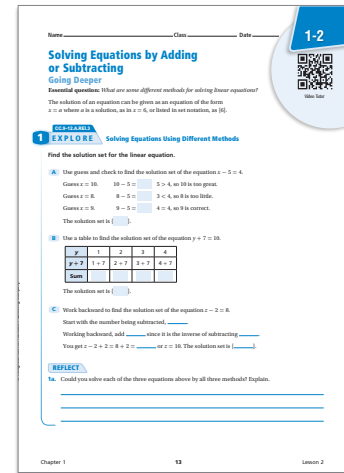
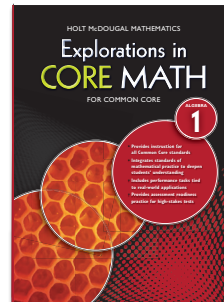
Over
11,000
items!

featured resources



Aligned to the Common Core State Standards

The Teacher's Editions contain correlations of the full program to the new Common Core State Standards. Standards are listed in the front matter with page number correlations.



Meaningful Assessments

Holt McDougal *Explorations in Core Math* provides meaningful assessments to match instruction at the end of every unit. Leveled “Performance Tasks” serve as convenient authentic assessment tools, and the Teacher’s Editions provide scoring rubrics. The next feature, “Problem Solving Connections”, may be used as an extended modeling activity or performance tasks. Every unit closes with a section of “Assessment Readiness” that features selected response, constructed response, and extended response items. The corresponding Teacher’s Editions pages provide item correlations and item analyses to help teachers diagnose student errors.

Universal Access – Comprehensive Teacher Guidance

The Holt McDougal *Explorations in Core Math* Student Editions provide a section of “Unpacking the Standards” at the beginning of every unit, as a tool for explaining the goals and focus of the new Standards to students and their parents. Teacher’s Editions provide helpful teaching notes throughout the lesson teaching cycle. “Universal Access” tips provide guidance for including all students in the lessons. The Performance Assessment tasks at the end of every unit are leveled so that students may have universal access for assessment preparation.

Ease of Use and Accessibility for Teachers

The Holt McDougal *Explorations in Core Math* program makes it easy to incorporate new Common Core content and mathematical practices into existing curricula. The Student Editions provide full interactive lessons for all Standards, and include meaningful assessments for every Unit. The Teacher’s Editions provide correlations, math background information, and teaching notes for every lesson. Helpful assessment tools are included for every Unit. Additionally, the Company is preparing helpful “crosswalk” information online, so that teachers will have guidance for integrating this new Common Core program with their existing basal materials.

price list

Explorations in Core Math

Product	ISBN	Price
Print Materials		
Grade 6 Student Workbook	978-0-547-87663-4	13.40
Grade 7 Student Workbook	978-0-547-87653-5	13.40
Grade 8 Student Workbook	978-0-547-87643-6	13.40
Grade 6 Teacher Edition	978-0-547-87578-1	36.07
Grade 7 Teacher Edition	978-0-547-87579-8	36.07
Grade 8 Teacher Edition	978-0-547-87576-7	36.07
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Geometry Student Workbook	978-0-547-88152-2	15.93
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On Core Mathematics Deluxe ExamView Grades 6-12 CD-ROM	978-0-547-68823-7	134.07

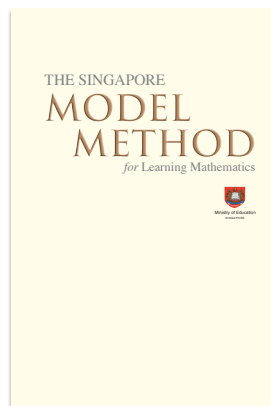
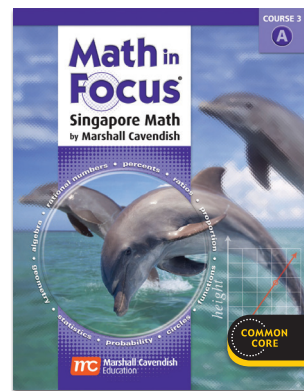
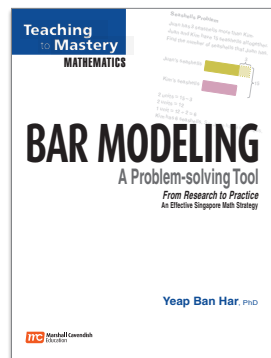
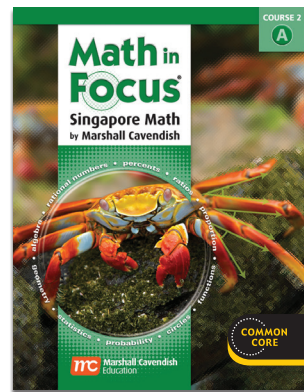
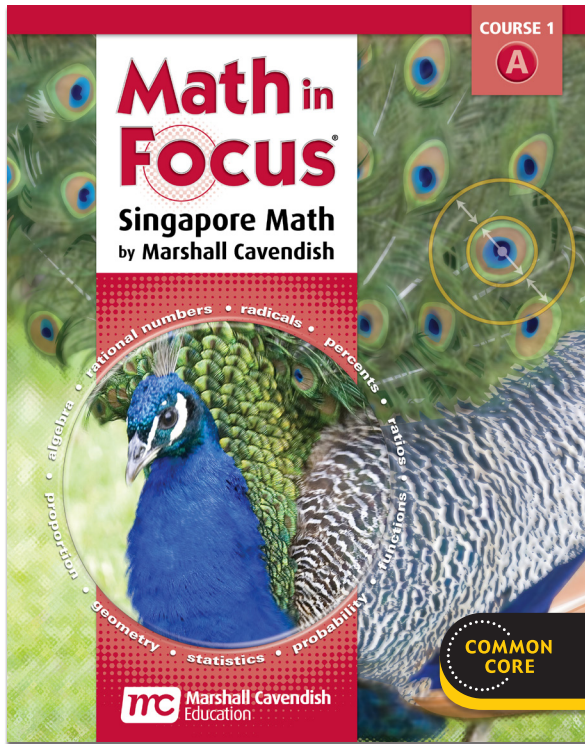
MIDDLE SCHOOL
grades 6–12

Explorations in Core Math

Math in Focus[®]

Singapore Math[®]

by Marshall Cavendish



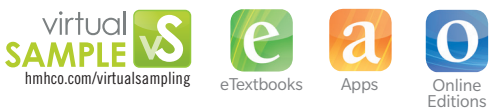
world class Singapore Math[®] for U.S. classrooms

Numbers and symbols can be confusing when you don't have a grasp of what they actually mean. Singapore Math[®] teaches concepts using a concrete–pictorial–abstract learning progression to anchor learning in real-world, hands-on experiences.

- Concepts are introduced through hands-on experiences with manipulatives.
- Students visualize the concept and represent it pictorially through models like number bonds and bar models.
- Students only use abstract numbers and symbols when they have enough context to understand what they mean.

© 2013 Grades 6–8

hmhco.com/mathinfocus



The Instructional Advantages

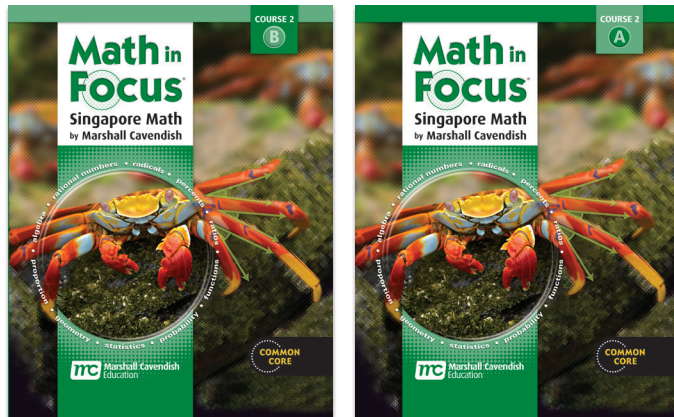
- Authentic Singapore Math[®] curriculum
- The model for the Common Core State Standards with point-of-use correlations
- Consistent use of concrete manipulatives and visual models to build abstract understanding
- Instruction centered around problem solving using multiple models to help students visualize and understand
- Extensive differentiated support to reach on-level, advanced, and struggling learners

Singapore Math[®] is a trademark owned by Singapore Math Inc. and Marshall Cavendish Education Pte. Ltd.

A full list of program components and prices begins on page 54 >>

grades 6–8 components

core components



Student Books focus on classroom learning, discussion, practice, and problem solving. Corresponding Teacher's Editions provide support and teaching suggestions.



Assessments

Diagnostic chapter pretests help teachers plan instruction. Chapter tests in test-prep format provide formal assessment opportunities. Benchmark, Mid-Year, and End-of-Year assessments provide further measures of students' mastery.

differentiation resources

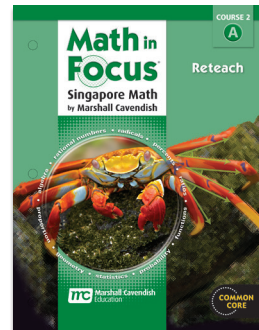
For Transition

Transition Guide and **Online Transition Map** are intervention resources for students whose knowledge of prerequisite skills and concepts is weak.

English Language Learners

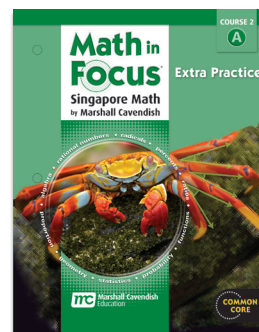
The simple language, clear drawings, and visual aspect of **Math in Focus** means the entire program is inherently accessible to English language learners. Additionally, the Teacher's Edition provides lesson-specific suggestions for facilitating instruction for English language learners.

For struggling learners

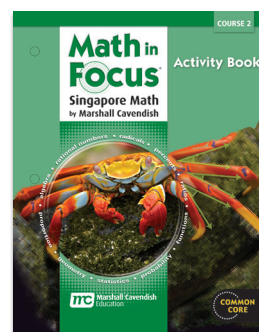


Reteach provides more exposure to concepts for those students who need more time to master new skills or concepts. Additionally, the Teacher's Edition provides tips for helping struggling students at point of use.

For on-level students



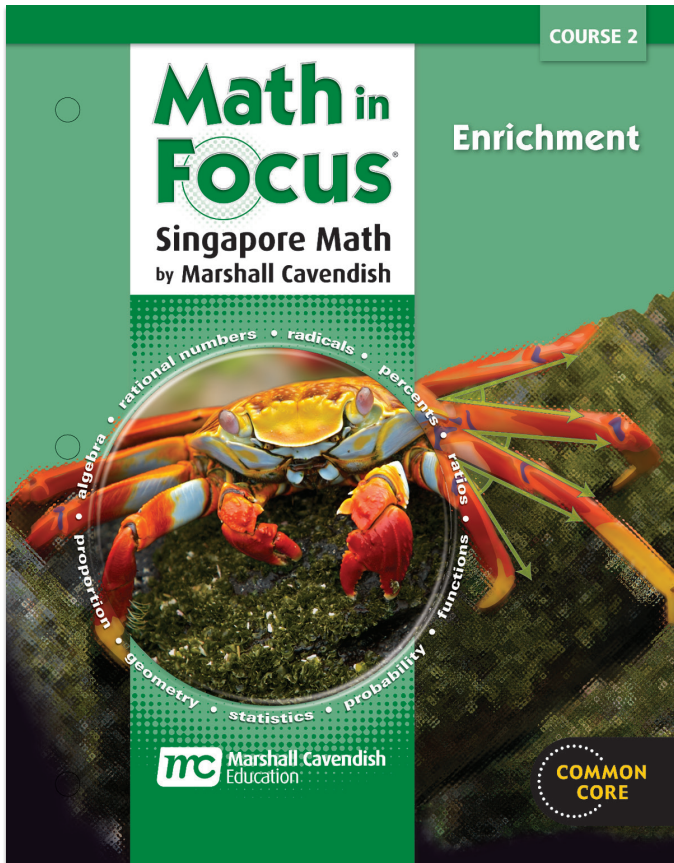
Extra Practice provides more practice to on-level students and are similar to the Practice exercises in the Student Books.



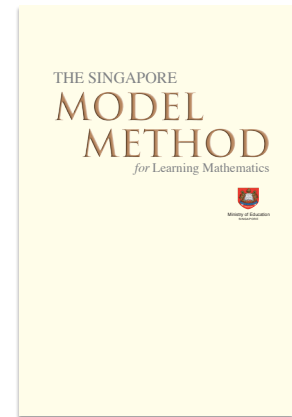
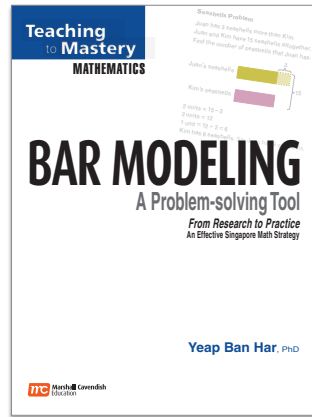
Activity Book contains projects and activities to deepen students' mathematical experiences.

additional resources

For advanced students



Enrichment provides exercises for advanced students seeking challenge beyond exercises in the student books.



Bar Modeling: A Problem-Solving Tool

Author: Dr. Yeap Ban Har

Publisher: Marshall Cavendish Int (S) Pte Ltd, Singapore

This resource is designed for math educators who want to know how bar modeling can be used as a tool for solving word problems. Educators will learn how the various types of bar models can be applied in different scenarios through extensive examples, guided practice questions, as well as independent practice. Tips and hints aid in gaining a deeper understanding of this powerful strategy and illustrate how bar modeling can be brought into the classroom at various grade levels. With write-in notes sections and practice problems, this is the ideal text for those who want a hands-on introduction to bar modeling.

The Singapore Model Method for Learning Mathematics

Authors: Kho Tek Hong, Ph.D., Yeo Shu Mei, Ph.D., and James Lim, MA (Ed.)

Publisher: Marshall Cavendish Int (S) Pte Ltd, Singapore

This monograph provides in-depth details on bar modeling and the Singapore Math® framework. Written by curriculum specialists and planning officers from the Singapore Ministry of Education, the text walks readers through numerous examples of the model method and explains how it can be used for problem solving. The authors also address the famous Singapore Math® pentagon, highlighting the specific framework that has led Singapore to success in mathematics.

MIDDLE SCHOOL
grades 6–8

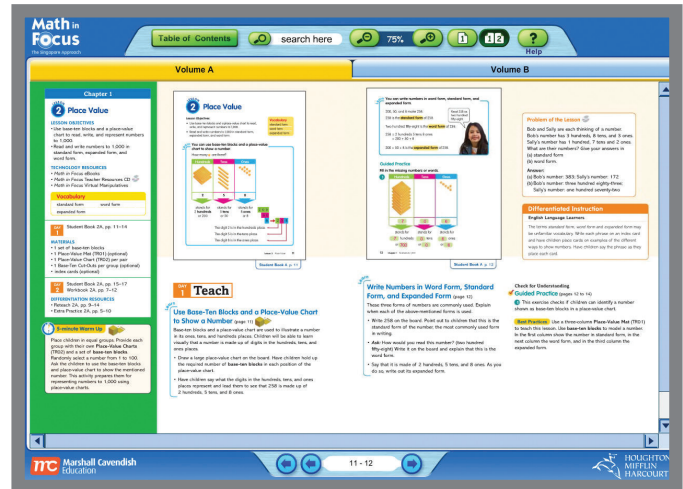
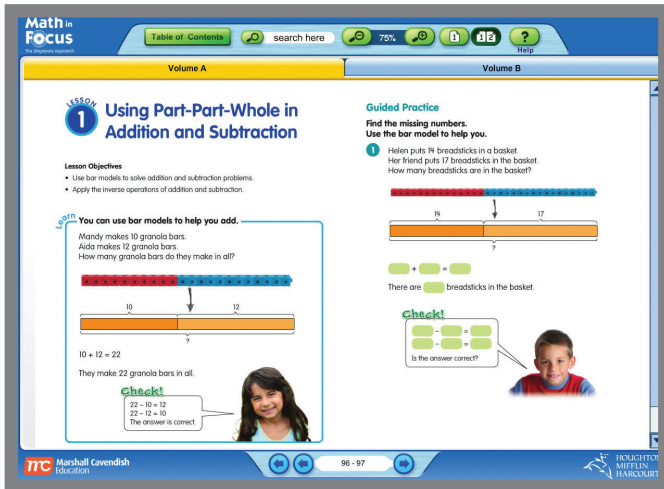
Math in Focus

Family Letters and Activities

includes newsletters in English and Spanish that promote family involvement with chapter vocabulary and concepts.

Singapore Math® is a trademark owned by Singapore Math Inc. and Marshall Cavendish Education Pte. Ltd.

technology



Student Online

The **Online Student Book eBook** provides students access to their Student Book at school or from home.

Online Virtual Manipulatives

Students can interact with the **Math in Focus** manipulatives online, at school, and at home. Includes Singapore Math® place value, number bonds, and bar modeling tools.

Teacher Online Technology

The **Online Teacher's Edition eBook** provides online planning and lesson support. Teachers can log on anytime from any computer with an Internet connection.

Online Workbook eBook (Grades 6–8)

Teachers can access PDFs of all of the Student Workbook pages in a printable, digital format.

ExamView® Assessment Generator

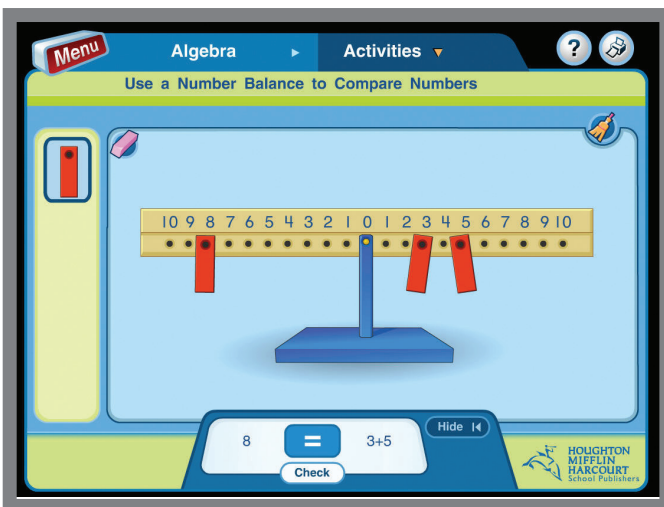


Create unlimited online customized tests and practice sets for students. Includes robust test banks, including problems to address the Common Core State Standards.

Teacher One Stop™ CD-ROM

Complete printable PDFs on a CD-ROM for ease of use and daily lesson planning.

interactive whiteboard ready





Online Videos and Podcasts for Teachers and Parents

Learn more about Singapore Math® with online videos and podcasts. Teachers can access math background videos and author podcasts. Parents can learn more about Singapore Math® and how to help their children succeed.

Online Teacher Resources Printable PDFs of:

- Extra Practice
- Enrichment
- Assessment
- School-to-Home Connections
- Additional resources

Online Transition Resource Map



Designed to be used in conjunction with the print Transition Guide, this online resource makes it easy to locate and print previous grade-level Reteach and Extra Practice content to address transition-related knowledge and skill gaps.

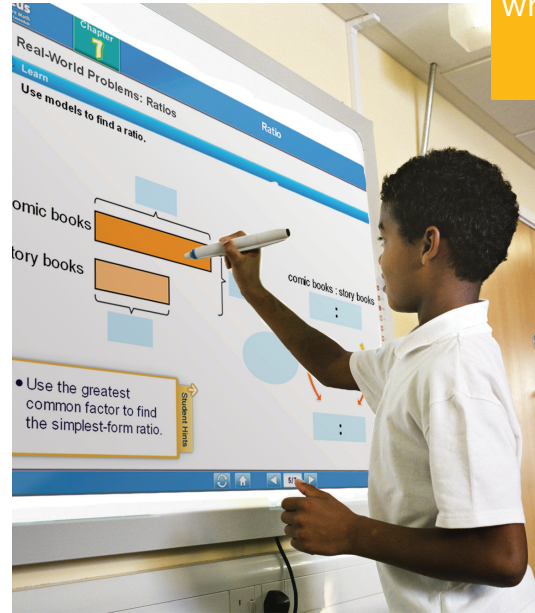
Access to the eLearning Website

The **Math in Focus** eLearning website is a resource for teachers and parents. The website contains detailed information about **Math in Focus** and Singapore Math®, including overview presentations and implementation support. Visit hmhelearning.com to preview.

enhance the learning experience

in the classroom and at home.

interactive whiteboard ready



Interactive Whiteboard Lessons

Specially designed Interactive Whiteboard Lessons enhance lesson delivery and engage students with interactive technology.

classroom manipulative kits

Courses 1–3 Manipulative Kit

(accommodates classrooms of up to 30 students)

Manipulatives	Quantity
Algebra Tiles Student Set Set of 32 pieces includes 4 squared variables, 8 variables, and 20 constants	16 sets
Compasses	30
Set Squares (Drawing Triangles)	30
Protractors	30
Unit Cubes Colorful, interlocking cubes make it easy to measure volume, mass, length, and more. Each cube measures 1 cm ³ and has a mass of 1 gram.	500
Counters 2-color (200 per set)	4 sets
Blank Dice and Labels (Set of 36)	1 set
Rainbow Fraction Circles (Set of 51)	30 sets




MIDDLE SCHOOL
grades 6–8

Math in Focus



price list

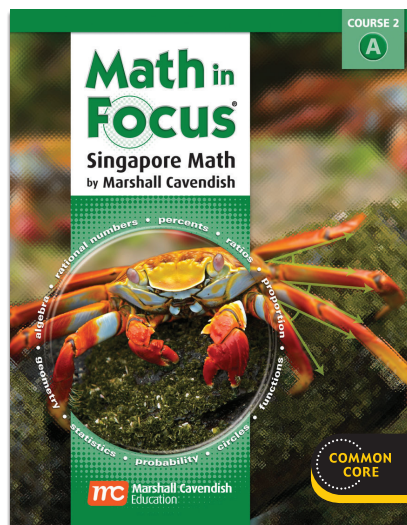
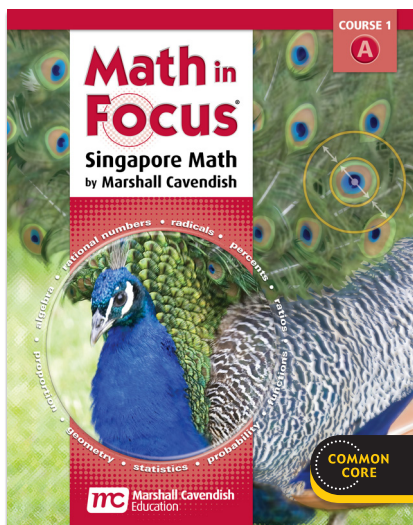
Math in Focus Grades 6–8

Course 1

Product	ISBN	Price
Student Materials		
Student Book Bundle A and B Set	978-0-547-61809-8	97.00
Student Book A	978-0-547-55936-0	48.53
Student Book B	978-0-547-56012-0	48.53
 Student Edition eTextbook ePub 1-year	978-0-544-05770-8	18.65
Teacher Materials		
Teacher's Edition Bundle A and B Set	978-0-547-61812-8	332.80
Teacher's Edition A	978-0-547-56100-4	166.40
Teacher's Edition B	978-0-547-56096-0	166.40
Solutions Key	978-0-547-57910-8	56.47
Classroom Materials		
Blackline Activities Book	978-0-547-57897-2	62.40
Extra Practice Bundle A and B Set	978-0-547-61801-2	71.47
Extra Practice A	978-0-547-57896-5	35.73
Extra Practice B	978-0-547-57899-6	35.73
Reteach Bundle A and B Set	978-0-547-61802-9	71.47
Reteach A	978-0-547-57916-0	35.73
Reteach B	978-0-547-57912-2	35.73
Enrichment	978-0-547-57887-3	62.40
Assessments	978-0-547-57903-0	62.40
Transition Guide	978-0-547-57909-2	43.40
Technology		
Teacher One-Stop Planner CD	978-0-547-67777-4	200.00
ExamView Assessment Generator CD	978-0-547-67711-8	193.13
Interactive Whiteboard Lessons, 1-year License	978-0-547-67687-6	62.13
 Premium Online Student Edition, 1-year License	978-0-547-67668-5	39.13
Manipulatives		
Courses 1–3 Manipulative Kit	 978-0-547-62636-9	533.20

Course 2

Product	ISBN	Price
Student Materials		
Student Book Bundle A and B Set	978-0-547-61811-1	97.00
Student Book A	978-0-547-56007-6	48.53
Student Book B	978-0-547-56010-6	48.53
 Student Edition eTextbook ePub 1-year	978-0-544-05782-1	18.65
Teacher Materials		
Teacher's Edition Bundle A and B Set	978-0-547-61813-5	332.80
Teacher's Edition A	978-0-547-56103-5	166.40
Teacher's Edition B	978-0-547-56101-1	166.40
Solutions Key	978-0-547-57911-5	56.47
Classroom Materials		
Blackline Activities Book	978-0-547-57905-4	62.40
Extra Practice Bundle A and B Set	978-0-547-61804-3	71.47
Extra Practice A	978-0-547-57902-3	35.73
Extra Practice B	978-0-547-57908-5	35.73
Reteach Bundle A and B Set	978-0-547-61805-0	71.47
Reteach A	978-0-547-57883-5	35.73
Reteach B	978-0-547-57884-2	35.73
Enrichment	978-0-547-57894-1	62.40
Assessments	978-0-547-57904-7	62.40
Transition Guide	978-0-547-61808-1	43.40
Technology		
Teacher One-Stop Planner CD	978-0-547-67888-7	200.00
ExamView Assessment Generator CD	978-0-547-67712-5	193.13
Interactive Whiteboard Lessons, 1-year License	978-0-547-67693-7	62.13
Manipulatives		
Courses 1–3 Manipulative Kit	 978-0-547-62636-9	533.20



 **WARNING: CHOKING HAZARD—Small Parts** Not for children under 3 yrs

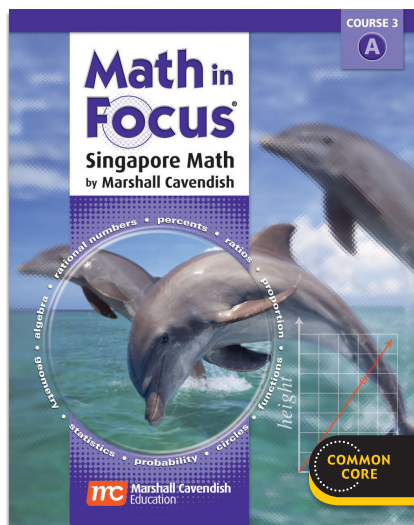
Course 3

Product	ISBN	Price
Student Materials		
Student Book Bundle A and B Set	978-0-547-61810-4	97.00
Student Book A	978-0-547-56011-3	48.53
Student Book B	978-0-547-56009-0	48.53
Student Edition eTextbook ePub 1-year	978-0-544-05784-5	18.65
Teacher Materials		
Teacher's Edition Bundle A and B Set	978-0-547-61814-2	332.80
Teacher's Edition A	978-0-547-56105-9	166.40
Teacher's Edition B	978-0-547-56098-4	166.40
Solutions Key	978-0-547-57913-9	56.47
Classroom Materials		
Blackline Activities Book	978-0-547-57898-9	62.40
Extra Practice Bundle A and B Set	978-0-547-61803-6	71.47
Extra Practice A	978-0-547-57907-8	35.73
Extra Practice B	978-0-547-57900-9	35.73
Reteach Bundle A and B Set	978-0-547-61806-7	71.47
Reteach A	978-0-547-57885-9	35.73
Reteach B	978-0-547-57886-6	35.73
Enrichment	978-0-547-57901-6	62.40
Assessments	978-0-547-57906-1	62.40
Transition Guide	978-0-547-61807-4	43.40
Technology		
Teacher One-Stop Planner CD	978-0-547-67666-1	200.00
ExamView Assessment Generator CD	978-0-547-67713-2	193.13
Interactive Whiteboard Lessons, 1-year License	978-0-547-67694-4	62.13
Manipulatives		
Courses 1–3 Manipulative Kit	▲ 978-0-547-62636-9	533.20

Professional Development Books for Teachers in Grades 2 and Up

Product	ISBN	Price
Bar Modeling: A Problem-Solving Tool	978-9-810-16868-1	43.13
The Singapore Model Method	978-9-812-80660-4	43.13

MIDDLE SCHOOL
grades 6–8



▲ WARNING: CHOKING HAZARD—Small Parts Not for children under 3 yrs

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Math in Focus

EVERY DAY COUNTS: algebra readiness

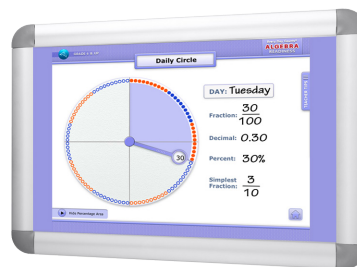
daily, sustained engagement in key algebra concepts

Includes ongoing assessment and pre-, post-, and interim tests

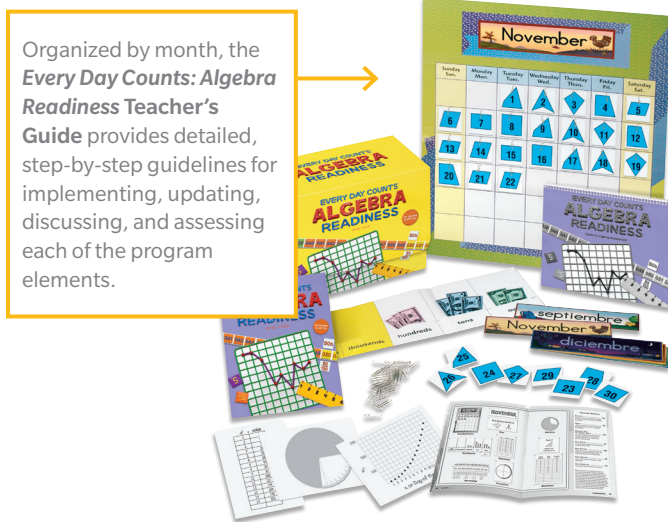
Every Day Counts: Algebra Readiness extends the **Every Day Counts: Calendar Math** philosophy using an interactive bulletin board program and provides powerful 10-minute math lessons and classroom discussions on key algebra readiness concepts. The program provides a concise focus on key algebra readiness concepts and skills to build competence:

- Recognizing patterns to develop algebraic thinking
- Using visual models, multiple representations, and computational fluency
- Developing math communication skills
- Learning to reason mathematically

Topics include: Fractions, decimals, percents, integers, number patterns, algebraic representation with variables, expressions, equations, graphing, measurement, and geometry



NEW Interactive Whiteboard Activities



Organized by month, the **Every Day Counts: Algebra Readiness Teacher's Guide** provides detailed, step-by-step guidelines for implementing, updating, discussing, and assessing each of the program elements.

MIDDLE SCHOOL
grades 6+

Teacher-Friendly Kit Resources

Every Day Counts: Algebra Readiness provides a variety of kit resources to support effective mathematics instruction for all levels of students.

The Complete Kit includes:

- Teacher's Guide
- Calendar (English/Spanish)
- Month Strips (English/Spanish)
- Numbered Calendar Pieces
- Adding Machine Tape
- Element Strips (English/Spanish)
- Counting Tape Pieces
- Depositor Poster
- Paper Clips
- Small Re-Sealable Storage Bags
- Teaching Resources Cardstock
- Play Money
- Clear Vinyl Pockets
- Set of Circle Pieces

price list

Every Day Counts: Algebra Readiness © 2006		
Product	ISBN	Price
Complete Kit	978-0-547-89274-0	390.60
Complete Digital Kit		
Algebra Readiness TCT	978-0-547-89326-6	288.47
Algebra Readiness HRW	978-0-547-96709-7	288.47
Interactive Whiteboard Upgrade		
Algebra Readiness TCT	978-0-547-89665-6	136.33
Algebra Readiness HRW	978-0-547-96662-5	136.33
Complete Print Kit with Interactive Whiteboard Upgrade		
Algebra Readiness TCT	978-0-544-07909-0	500.53
Algebra Readiness HRW	978-0-544-07878-9	500.53
Digital Teacher's Resource Package		
Algebra Readiness TCT	978-0-547-89891-9	180.27
Algebra Readiness HRW	978-0-547-96664-9	180.27
Helping Your Child Learn Math	978-0-669-51792-7	7.27
Every Day Counts Daily Planning Guide: Fostering Effective Discussion © 2012		
Grade 6 + Algebra Readiness	978-0-547-89286-3	69.27
Replacement Sets		
Includes Calendar, Calendar Pieces, and Month Strips.		
Grades 6 & Up	978-0-669-51917-4	121.47

Every Day Counts Algebra Readiness

Inspiring Curiosity

A young girl with brown hair in a braid, wearing a pink short-sleeved shirt, is looking upwards and smiling. She is outdoors in a garden setting with large green leaves in the foreground and a bright, sunlit background of trees and foliage. The image is framed by a white border.

“Anyone can memorize facts and figures, the key is to just venture into the unknown and let your

curiosity
take hold.”

—The Man in the Yellow Hat

Holt McDougal Larson Pre-Algebra

Holt McDougal Larson Pre-Algebra provides coverage of the Common Core Math Standards and Standards for Mathematical Practice for an accelerated course of study.

core texts

Student Edition

Delivers content that covers the Common Core State Standards accelerated pathway for 7th grade, giving students the resources to prepare them for Algebra 1 in 8th grade.

Teacher's Edition

Contains additional resources for professional development and questioning strategies to assist in the implementation of the new Common Core State Standards.

Interactive Online Edition

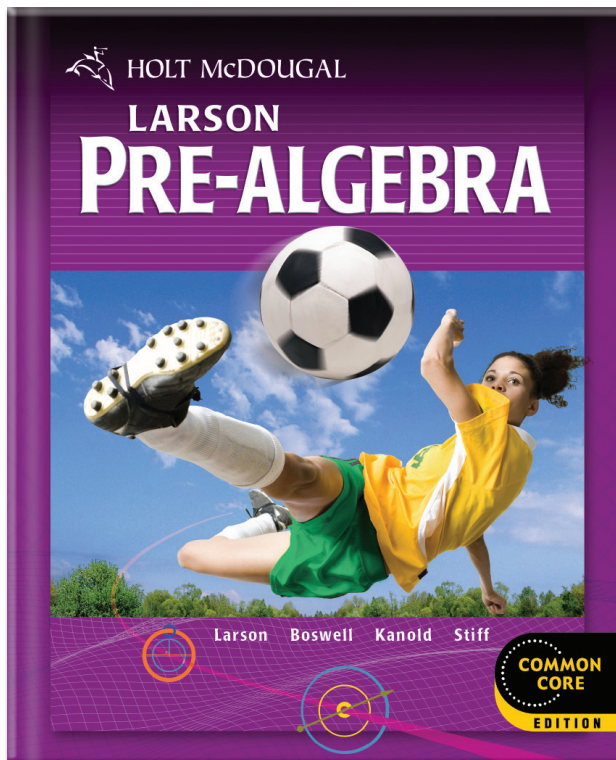
Contains all resources that are aligned with the new Common Core Student Edition, ELL resources, and online quizzes and assessments.

Student One Stop DVD-ROM

Offers the entire Common Core Student Edition, plus intervention and enrichment resources and student workbooks all on one DVD-ROM.

table of contents

1. Variables, Expressions, and Integers
2. Solving Equations
3. Multi-Step Equations and Inequalities
4. Factors, Fractions, and Exponents
5. Rational Numbers and Equations
6. Ratio, Proportion, and Probability
7. Percents
8. Linear Functions
9. Real Numbers and Right Triangles
10. Measurement, Area, and Volume
11. Data Analysis and Probability
12. Angle Relationships and Transformations



The Houghton Mifflin Harcourt Advantage

Accelerated Course of Study

Holt McDougal Larson Pre-Algebra covers only the Common Core State Standards content needed for students who are accelerated and plan to take Algebra 1 in 8th grade.

The Next Level of Comprehension

The program's focus on the Standards for Mathematical Practice develops students' ability to not just "do" math but to "understand and explain" the math.

Closing the Gap

Embedded math RtI resources ensure every student gets the help he or she needs.

Technology for Today

New Online Student Edition, Teacher One Stop, Deluxe ExamView Assessment Suite Grades 6–12, and Common Core Activity Generator provide teachers and students the tools to succeed with the Common Core State Standards.

Grades 6–9 © 2012

Authors: Larson, Boswell, Kanold, Stiff

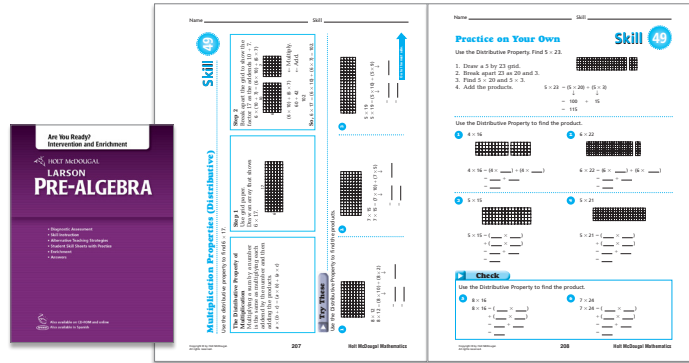


featured resources

Intervention

Are You Ready? Intervention and Enrichment

Provides direct instruction and scaffolded practice worksheets for students in need of basic skill review, along with enrichment worksheets for those ready to move on (also available in Spanish).



Ready to Go On? Intervention and Enrichment

Rtl tiers 1, 2

Offers skill and problem-solving intervention worksheets to address student weaknesses before they are given summative tests, along with enrichment worksheets for those ready to move on (also available in Spanish).

Questioning Strategies



Provides questions designed for the Standards for Mathematical Practice that help students develop depth of knowledge of the key concepts. Intervention is then recommended when needed throughout this resource.

Differentiated Instruction

Success for Every Learner

Rtl tier 1

Provides an alternate practice worksheet using a visual approach, along with strategies for differentiated instruction, for each lesson and is ideal for English Language Learners as well as other students.

I.D.E.A. Works!® Modified Worksheets and Tests Chapter Resources Success

Rtl tier 2

Features modified practice and problem-solving worksheets for every lesson and modified quizzes and tests for every chapter, along with flashcards, to accommodate I.D.E.A. (Individuals with Disabilities Education Act—guarantees that children with disabilities have the right to receive specially designed instruction).

Chapter Resources

Contains three levels of practice worksheets for every lesson, plus reteaching tools, challenges, problem solving, reading strategies, math puzzles, parent letters, and family involvement activities.

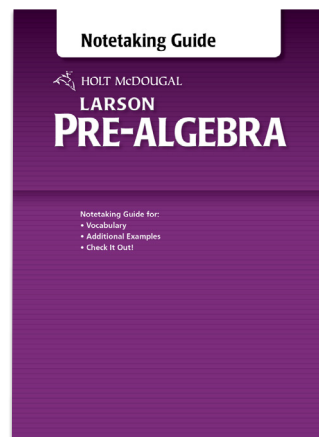
Best Practices Toolkit

Provides strategies for effective teaching through research-based solutions, differentiated instruction, and suggestions for use of manipulatives and technology in the classroom, along with Teacher Survival Activities.

Pre-AP® Resources

Includes additional lessons and materials that promote deeper mathematical understanding, extend topics, or present new topics.

Notetaking Support



Notetaking Guide

This innovative organizational tool promotes notetaking skills and provides students with a framework for recording each lesson's key concepts. The exercises also help students review material and prepare for tests.

Notetaking Guide Teacher's Edition

These notes pages, complete with answers, help to assess study skills and supply absent students with missed notes.

A full list of program components and prices begins on page 61 >>

featured resources

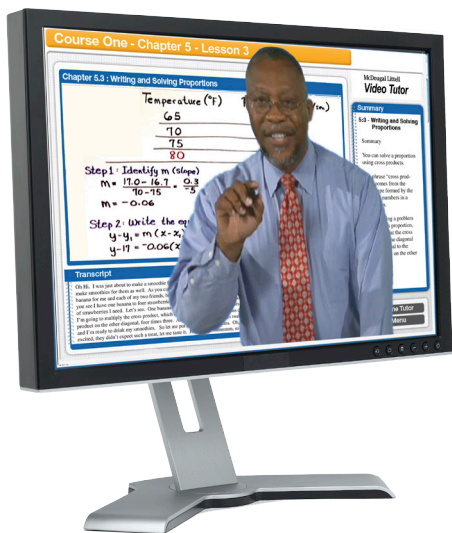
Resources

Assessment Book

Features quizzes; chapter, unit, and cumulative tests; alternative assessment options; a diagnostic test; and an end-of-course test.

Warm-Up Transparencies with Daily Homework Quiz

Provides warm-up activities and quizzes that help students prepare for the day's lesson and review prerequisite skills. (online only)

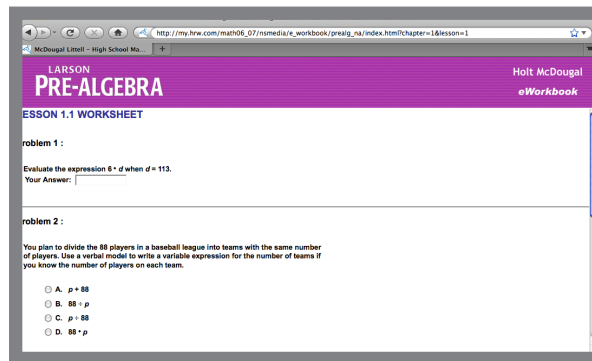


Video Tutor with Practice DVD-ROM

Full screen videos present content of the lessons. Audio is in English and in Spanish. Includes links to additional practice.

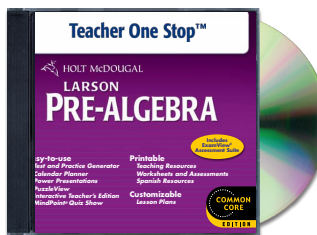
Online Edition

Gives students immediate access to the textbook and lessons resources, plus additional videos and activities, test preparation, intervention support, and more.



eWorkbook Online

This online workbook provides interactive practice correlated to the text and support for key concepts and skills. Algorithmically generated problems offer ample practice and allow students to focus on concepts that they find difficult.



Teacher One Stop DVD-ROM

Contains editable worksheets, customizable lesson plans, and editable PowerPoint presentations for every lesson, along with ExamView Assessment Suite, Calendar Planner, TechKeys, transparencies, and all Teacher's Edition pages.



@Home Tutor CD-ROM

Enables students to focus on the math and be more prepared for class, providing animated examples and instruction, self-scoring exercises, and personalized progress reports.

Name _____ Class _____ Date _____

Explore It!

Rates of Change and Slope

Investigate Slope and Proportions

You can use graphs of linear equations to explore the relationship between proportions and the steepness of a line.

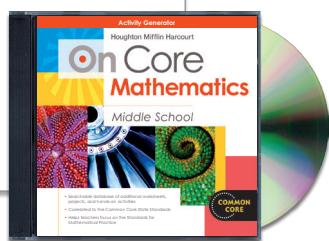
Activity

Isa hiked at a rate of $\frac{2}{3}$ mile per hour. The function $y = \frac{2}{3}x$ describes her speed, where x is the number of hours and y is the total distance hiked.

- Complete the table by finding how far Isa hiked in the given number of hours.

x (h)	0	3	6	9	12	15
y (mi)	0	2				

- Graph the ordered pairs from the table on the coordinate plane.
- Start at (0, 0) and go to the second point on the graph, (3, 2), by moving up and then moving right.



On Core Mathematics Middle School Activity Generator CD-ROM

Provides a searchable database of additional worksheets, projects, and hands-on activities correlated to the Common Core State Standards. Helps teachers focus on the mathematical practices.

Name _____ Class _____ Date _____

Pre-Algebra test

Multiple Choice
Identify the letter that best completes the statement or answers the question.

1. Which ratios are like ratios?
 A. $\frac{4}{5}$ and $\frac{8}{10}$
 B. $\frac{3}{4}$ and $\frac{6}{8}$
 C. $\frac{46}{54}$ and $\frac{7}{9}$
 D. $\frac{6}{8}$ and $\frac{9}{12}$

2. Which equation represents the sentence "The product of 12 and p is 60"?
 F. $12 + p = 60$
 G. $12 - p = 60$
 H. $12 \cdot p = 60$
 I. $\frac{12}{p} = 60$

Short Answer

Simplify the expression.
 3. $4x + 3x - 2x$

Essay

4. **EXTENDED RESPONSE** Write your answer on a separate piece of paper.
 The table shows the change in the distance (in kilometers) an employee travels for business purposes from one week to the next.

Week	1	2	3	4	5
Change	+12	-7.5	+8.1	+11.7	

a. Find the overall change in the distance traveled for the five weeks.
 b. The employee traveled 48.8 kilometers in week 1. How far did the employee travel in week 5?
 c. Find the overall change in the distance traveled for the five weeks.



Over 11,000 items!

On Core Mathematics Deluxe ExamView® 6-12 Assessment Suite CD-ROM

The Deluxe **On Core ExamView 6-12 Assessment Suite** has the latest software and over 11,000 items written to all DOK levels and organized by 6-12 CCSS. Provide additional standards-based practice; dip down to a Tier 3 level for skills remediation; or prepare for new formats on the Common Core assessments.

Interactive Answers and Solutions CD-ROM

Enables teachers to customize and project answer keys for specific assignments and to display any of over 8,000 complete stepped-out solutions with the click of a mouse.



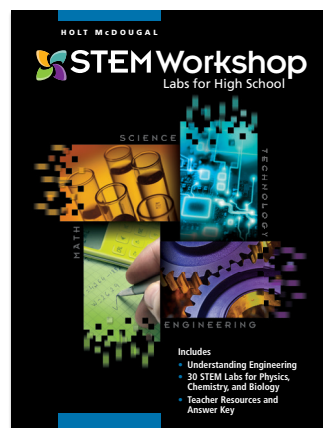
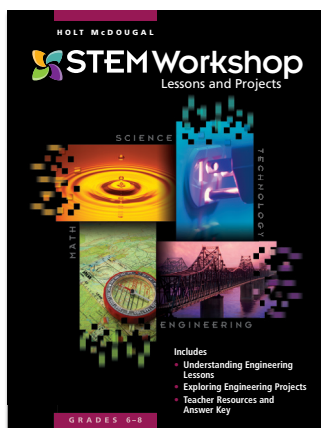
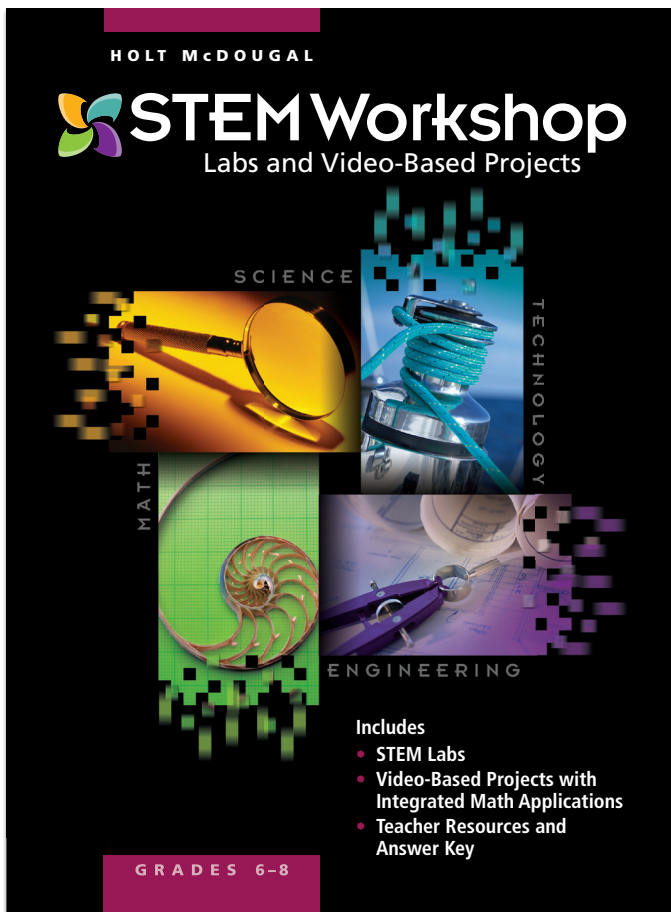
Interactive Whiteboard Lessons

Easy to use interactive whiteboard lessons that help teachers develop their technology integration skills, refine their teaching strategies, and effectively manage their time. These lessons integrate renowned math instruction with interactive whiteboards and Student Response Systems to bring real-world mathematics to life and make learning relevant and FUN!

price list

Holt McDougal Larson Pre-Algebra © 2012

Product	ISBN	Price
Texts		
Student Edition	978-0-547-58777-6	110.53
Teacher Edition	978-0-547-61483-0	159.80
Online Edition 1-year	978-0-547-61501-1	27.67
Resources		
Notetaking Teacher's Guide	978-0-547-61448-9	48.13
Practice Workbook Teacher's Guide	978-0-547-61473-1	104.00
Are You Ready? Intervention and Enrichment [with Answers]	978-0-547-61446-5	104.73
Assessment Resources [with Answers]	978-0-547-61474-8	87.80
Best Practices Toolkit [with Answers]	978-0-547-61466-3	121.27
Chapter Resources (Volumes 1 and 2)	978-0-547-61631-5	456.07
Chapter Resources Volume 1: Chapters 1-7 [with Answers]	978-0-547-61469-4	228.13
Chapter Resources Volume 2: Chapters 8-13 [with Answers]	978-0-547-61472-4	228.13
IDEA Works! Modified Worksheets and Tests [with Answers]	978-0-547-61449-6	121.27
Pre-AP* Resources	978-0-547-61451-9	31.80
Ready to Go On? Intervention and Enrichment [with Answers]	978-0-547-61468-7	57.40
Solutions Key	978-0-547-61445-8	83.27
Success for Every Learner	978-0-547-61480-9	109.27
Multi-Language Visual Glossary	978-0-618-26963-1	102.60
Workbook		
Notetaking Guide	978-0-547-61464-9	15.93
Pre-Algebra Practice Workbook	978-0-547-61460-1	6.40
Technology		
Student One Stop DVD	978-0-547-61444-1	88.47
Teacher One Stop DVD	978-0-547-61475-5	200.00
@HomeTutor CD-ROM	978-0-547-61496-0	38.20
Are You Ready? Intervention and Enrichment CD-ROM	978-0-547-61514-1	81.13
Interactive Answers and Solutions CD-ROM	978-0-547-61511-0	79.60
Video Tutor with Practice DVD	978-0-547-61486-1	91.47
On Core Mathematics Middle School Activity Generator CD-ROM	978-0-547-68833-6	125.80
On Core Mathematics Deluxe ExamView Grades 6-12 CD-ROM	978-0-547-68823-7	134.07
On Core Interactive Whiteboard Lessons Grade 7	978-0-547-90850-2	194.13
On Core Interactive Whiteboard Lessons Grade 8	978-0-547-90840-3	194.13
eTextbook		
Student Edition eTextbook ePub 1-year	978-0-544-04651-1	18.65



STEM solutions

for college and career readiness

More than simply the sum of Science, Technology, Engineering, and Mathematics, **STEM** is an integrated approach to learning that spans grades 6–12 and beyond.


What is STEM?

Quality **STEM** education not only equips students with the vital knowledge necessary to succeed in our technology-driven world, but also promotes 21st century skills, such as creativity and collaboration through inquiry-driven challenges. **STEM** focuses on real-world problem solving and includes career connections that emphasize real-world applications and encourage diversity.

Each day, new headlines highlight the growing achievement gap between American and foreign students in Science, Technology, Engineering and Mathematics (**STEM**) subjects. That's why policy makers—concerned about our nation's competitiveness—worry about leaks in America's **STEM** pipeline: the flow of students who excel in these subjects and go on to pursue careers in these areas.

But the challenge for students is more immediate—and not just for those who hope to succeed in the growing number of **STEM**-focused middle schools and high schools (the pipeline)—but for all students (the mainline): how will they acquire the knowledge and critical thinking skills to meet the rapidly accelerating demands of college and careers?

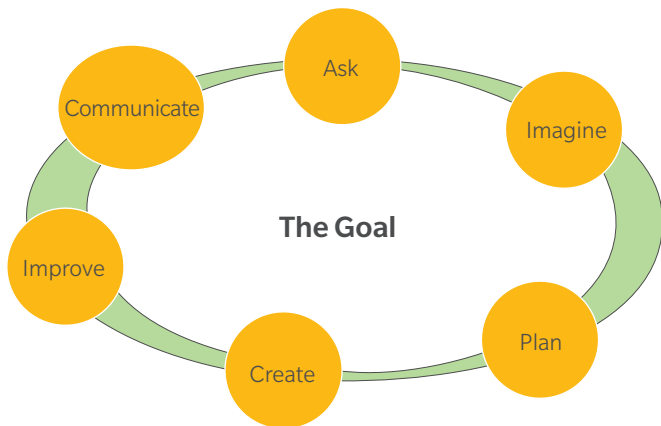
STEM Solutions

Houghton Mifflin Harcourt meets the challenge with comprehensive solutions that address the needs of both the pipeline and the mainline—with standalone **STEM** units and solutions integrated into its already outstanding science offerings. These units within our science programs are highlighted throughout this catalog—look for the  indicating **STEM**-friendly programs. On the facing page individual **STEM** offerings are featured, as well as teacher professional development opportunities.

© 2012 Grades 6–12

hmhco.com/stem

Engineering Design Process



STEM Workshop

Give your students a head start in **STEM** literacy with the **STEM Workshop**. Each unit teaches the fundamentals of the Engineering Design Process (EDP) and offers inquiry-based approaches to address age-appropriate design challenges. In addition, the middle school units feature Video-Based Projects (VBPs). Shot on location and featuring real-world **STEM** scenarios—such as the use of cutting-edge medical technology at Boston’s renowned Children’s Hospital—VBPs offer students the opportunity to use their scientific knowledge and mathematics skills to solve real-world issues. **STEM Workshop** also includes technology projects that teach the EDP and feature real-world applications.



price list

STEM Workshop Middle School (Grades 6-8)

Product	ISBN	Price
Print bundle (2-volume teacher’s edition with reproducible student pages + DVD)	978-0-547-85978-1	299.20
Online bundle (online access to teacher’s edition, reproducible student pages, and video)	978-0-547-85974-3	249.60

Ask students to solve real-world problems using the EDP. Choose either the print or online version. Both include the same great content.

STEM Labs High School

Product	ISBN	Price
Print version (teacher’s edition with reproducible student pages)	978-0-547-85901-9	152.53
Online version (online access to teacher’s edition and reproducible student pages)	978-0-547-85975-0	124.80

Add **STEM** to your science lab with these inquiry-based activities that focus on the EDP. For ease of integrating into existing high school science curricula, these labs are specifically linked to biology, chemistry, and physics. Choose either the print or online version. Both include the same great content.

STEM Solutions

Science

Students are asked to put their fundamental scientific knowledge to the test—reinforcing key concepts and strengthening vital critical thinking skills for future success.

Technology

Students are challenged to solve real-world problems using mathematical and scientific knowledge—an activity central to all technology—from the most basic to the most advanced.

Engineering

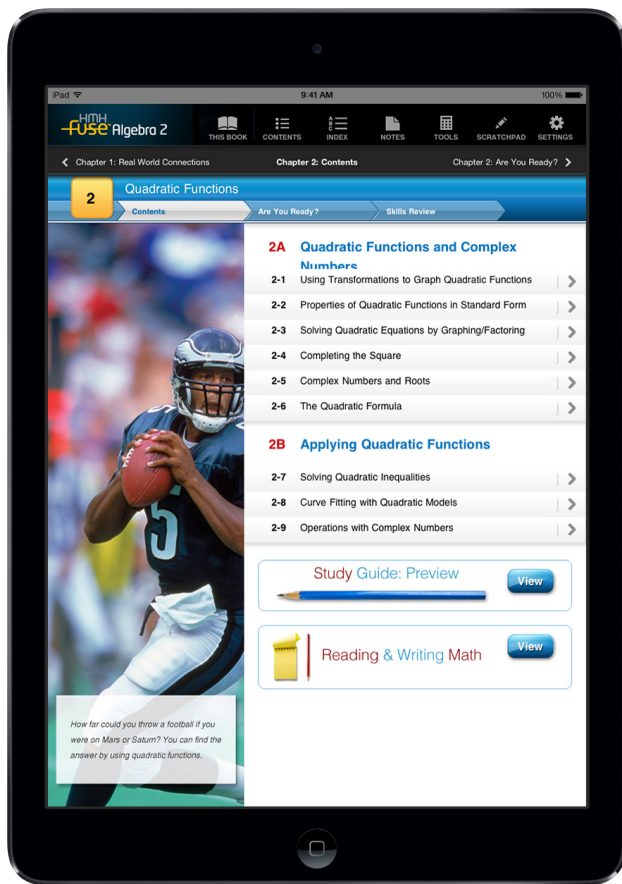
Students are given the opportunity to master the Engineering Design Process (EDP), which parallels the scientific process, and is the key to solving any engineering challenge.

Mathematics

Students are required to master the basic tool essential to all scientific, technological, and engineering endeavors: mathematics, the glue that holds **STEM** together.

STEM
grades 6–12

STEM



Fuse award-winning content with cutting-edge technology, *Houghton Mifflin Harcourt* introduces the world's first comprehensive digital curriculum for Algebra 1, Geometry, and Algebra 2.

The Houghton Mifflin Harcourt Advantage

Interactive

HMH Fuse is a completely new interactive experience. It offers video tutorials, audio and typed note taking features, ongoing assessments with the results sent back to the teacher, and a lot more.

Personalized Instruction

With **HMH Fuse**, students can take assessments at their own pace. Results are sent immediately back to the teacher, who can then differentiate instruction appropriately.

For Digital Natives

With innovative assets like video tutorials for every lesson, animated step-by-step solutions, and visual graphing tools, your students will use technology for school work like they use it at home.

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program overview

Learn

Scroll and quickly access all parts of each lesson. Review examples with engaging videos.

Lesson Tutorials

Factoring by Using the GCF
Factor the polynomial. Check your answer.

$5x^2 - 7x$

$5x^2 = 5 \cdot x \cdot x \cdot x$ Find the GCF
 $7x = 7 \cdot x$

The GCF of $5x^2$ and $7x$ is x .

$5x^2(x) = 7(x)(x)$ Write the terms as products using the GCF as a factor.
 $x(5x - 7)$ Use the Distributive Property to factor out the GCF.

Check Your Work

$x(5x - 7) =$

The Distributive Property states that $ab + ac = a(b + c)$ or $a(b + c) = ab + ac$.

Key Objectives

- Factor polynomials by using the greatest common factor.

Interact

Use custom math tools to model, graph and explore.

3D Explorer

Select a figure to explore.
Rotate the figure to view it from different perspectives. A net of the figure is also shown.
A right hexagonal prism has 2 congruent hexagonal bases and 3 rectangular faces.

Quadratic Explorer

Equation and Attributes:
 $y = -4x^2 + 9x + 0$

$a = -4$
 $b = 9$
 $c = 0$

Skills Review

Before continuing review the bookmarked skills below.

Order of Operations | Add and Subtract Integers | Add and Subtract Fractions | Evaluate Expressions | Connect Words and Algebra

Review the skill video, try the practice questions, and then take a post test.

Video: Tap the button to start the skill video.

Practice Questions: Tap the button to start the practice questions.

Answer each question: Tap the button to answer each question.

Test Yourself

Integrated assessments provide immediate results and permit access to prescribed instruction and practice.

Algebra 1

Student: Diane Fluty | Report Date: 04/20/2011 | Class: Fuse Grade 11 | Chapter: Chapter 1 | Date: Are You Ready?

Skill/Text	Number Correct	% Correct
Whole Number Operations	2/4	50%
Add and Subtract Decimals	2/4	50%
Multiply Decimals	3/4	75%
Divide Decimals	3/4	75%
Multiply and Divide Fractions	2/4	50%
Add and Subtract Fractions	4/4	100%

Review Results

Teachers can easily view students' results and modify instruction accordingly.

price list

HMH Fuse © 2012

Product	ISBN	Price
iPad		
Holt McDougal Algebra 1 1-year	978-0-544-23740-7	23.99
Holt McDougal Geometry 1-year	978-0-544-23750-6	23.99
Holt McDougal Algebra 2 1-year	978-0-544-23751-3	23.99
Android		
Holt McDougal Algebra 1 1-year	978-0-544-23788-9	23.99
Holt McDougal Geometry 1-year	978-0-544-23787-2	23.99
Holt McDougal Algebra 2 1-year	978-0-544-23784-1	23.99



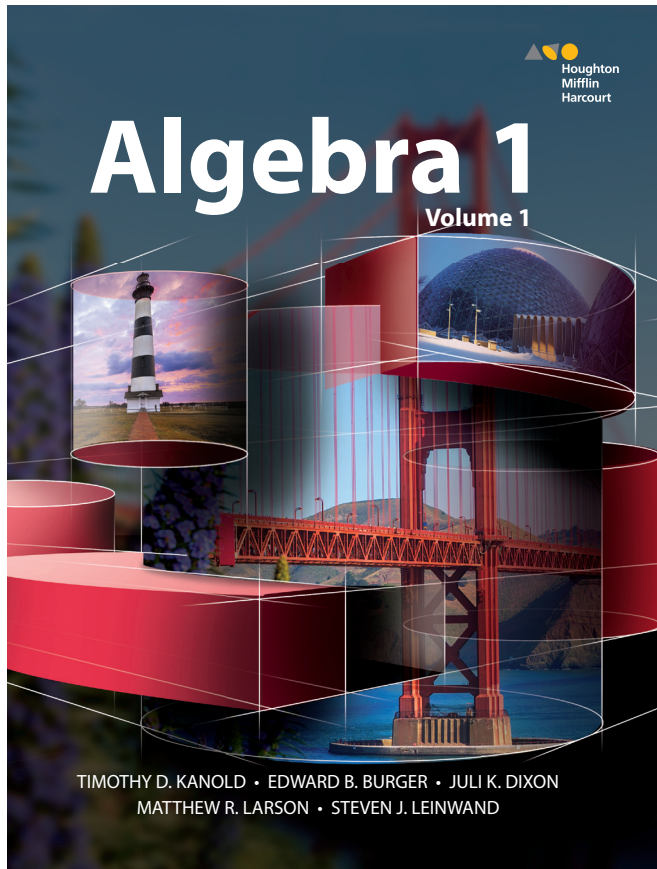
Algebra 1



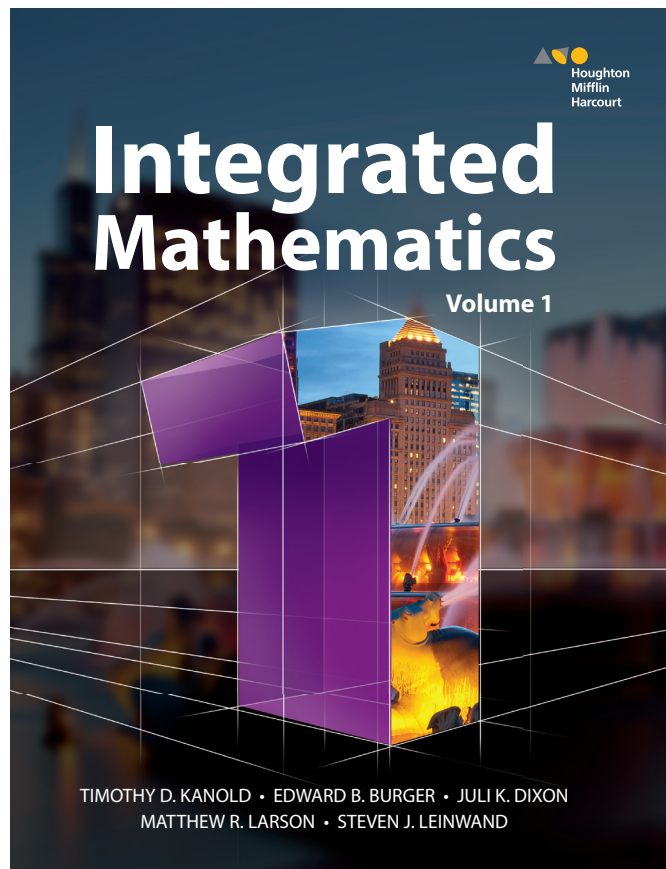
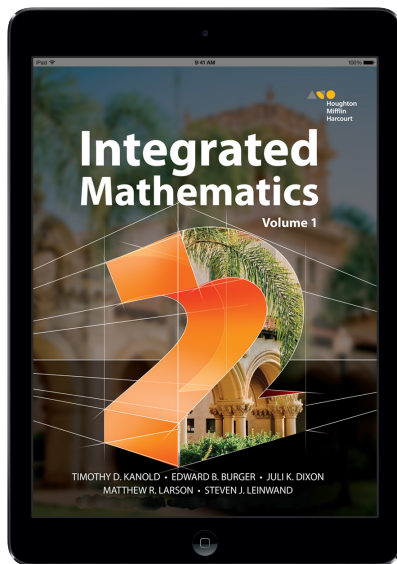
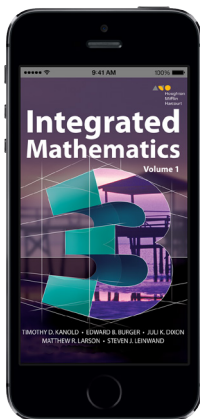
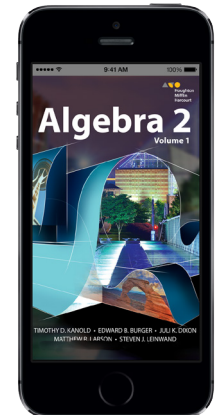
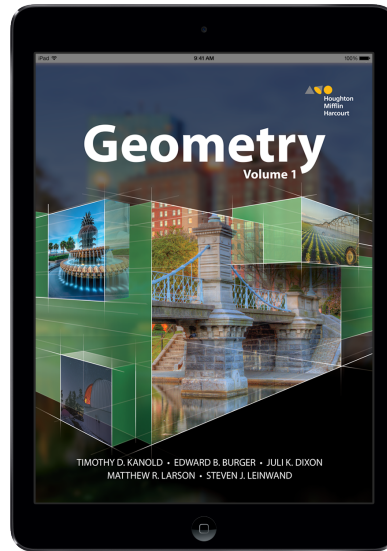
Geometry



Algebra 2



AGA



Integrated



AGA

Algebra 1

Geometry

Algebra 2



Integrated Mathematics

Adaptive. Intuitive. Transformative.

HIGH SCHOOL
grades 9–12

The all-new **HMH Algebra 1, Geometry, and Algebra 2** and **HMH Integrated Mathematics 1,2,3 programs** encompass the philosophy and intent of the Common Core State Standards by providing teachers with focused, balanced, and rigorous instruction. These next-generation, online programs address the needs of today's on-the-go students with the groundbreaking HMH Player. This full-service app is a comprehensive program featuring state-of-the-art videos, interactivities, and algorithmic assessments available at point of use, on Internet-enabled devices. In addition, Personal Math Trainer Powered by Knewton™ offers an adaptive assessment and personalized learning system for students, with an automatic reporting and intervention system for the teacher.

What sets these new HMH high school programs apart?

- Seamless integration of digital features reaches today's students in their preferred learning style.
- Digital course management tools offer teachers flexibility in planning, instruction, and assessment for in-class or on-the-go learning.
- Focused, balanced, and rigorous instruction encompasses the philosophy and intent of new state standards.

Plus, a strong emphasis on 21st-century skills

- Both programs present a digital-first solution—built around the groundbreaking **HMH Player**—that transcends the traditional approach of eBooks and online resources.
- **HMH Player** provides an enhanced tablet-friendly digital experience for students, teachers, and parents.
- Personalized and adaptive instruction is taken to the next level with **Personal Math Trainer™ Powered by Knewton™**.

Grades 9–12 © 2015

Authors: T. Kanold, E. Burger, J. Dixon, M. Larson, S. Leinwand

hmhco.com/hmh-aga

hmhco.com/hmh-int123

hmhco.com/hmh-player

virtual
SAMPLE 
hmhco.com/virtualsampling



A full list of program components and prices begins on page 82 >>

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- Module 2: Algebraic Models

Unit 2: Understanding Functions

- Module 3: Functions and Models
- Module 4: Patterns and Sequences

Unit 3: Linear Functions, Equations, and Inequalities

- Module 5: Linear Functions
- Module 6: Forms of Linear Equations
- Module 7: Linear Equations and Inequalities

Unit 4: Statistical Models

- Module 8: One-Variable or Univariate Data
- Module 9: Bivariate Categorical Data
- Module 10: Bivariate Quantitative Data

Unit 5: Linear Systems and Piecewise Functions

- Module 11: Solving Systems of Linear Equations
- Module 12: Modeling with Linear Systems

- Module 13: Piecewise-Defined Functions

Unit 6: Exponential Relationships

- Module 14: Rational Exponents and Radicals
- Module 15: Geometric Sequences and Exponential Functions
- Module 16: Exponential Equations and Models

Unit 7: Polynomial Operations and Equations

- Module 17: Adding and Subtracting Polynomials
- Module 18: Multiplying Polynomials
- Module 19: Factoring Polynomials

Unit 8: Quadratic Relationships

- Module 20: Graphing Quadratic Functions
- Module 21: Solving Quadratic Equations
- Module 22: Linear, Exponential, and Quadratic Models

Unit 9: Inverse Relationships

- Module 23: Functions and Inverses

HMH Algebra 2

Unit 1: Functions

- Module 1: Analyzing Functions
- Module 2: Absolute Value Functions, Equations, and Inequalities
- Module 3: Sequences and Series

Unit 2: Quadratic Functions, Equations, and Relations

- Module 4: Quadratic Functions
- Module 5: Quadratic Equations
- Module 6: Quadratic Relations and Systems of Equations

Unit 3: Polynomial Functions, Expressions, and Equations

- Module 7: Polynomial Functions
- Module 8: Polynomial Expression
- Module 9: Polynomial Equations

Unit 4: Rational Functions, Expressions, and Equations

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- Module 11: Rational Expressions, Equations, and Inequalities

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- Module 2: Transformations
- Module 3: Congruent Figures

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- Module 5: Triangle Congruence Criteria
- Module 6: Applications of Triangle Congruence
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- Module 22: Conditional Probability and Independent Events
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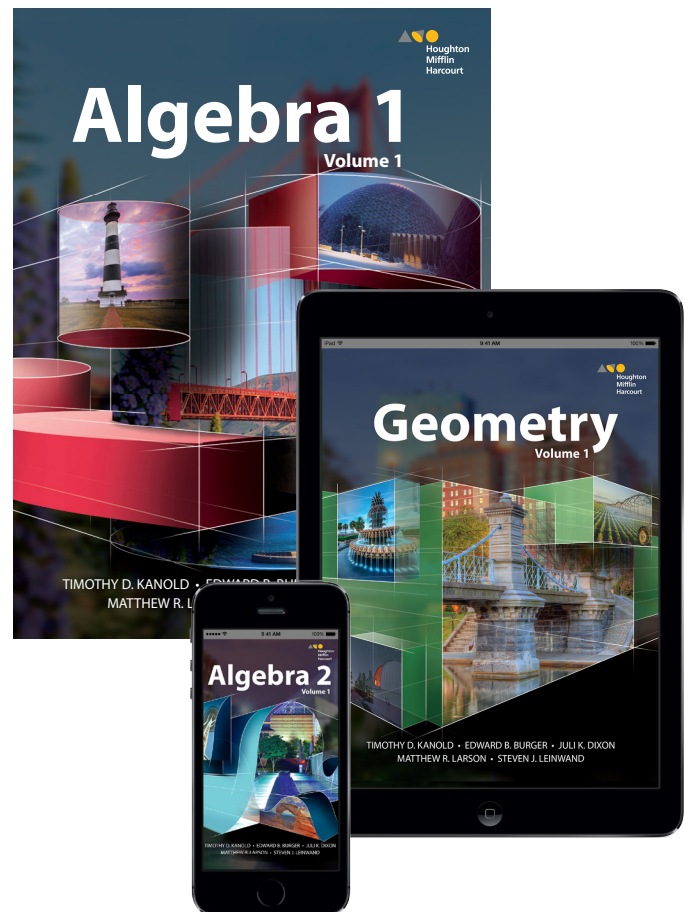


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- Module 1: Constructions
- Module 2: Coordinate Proof Using Slope and Distance

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Unit 2: Polynomial Operations

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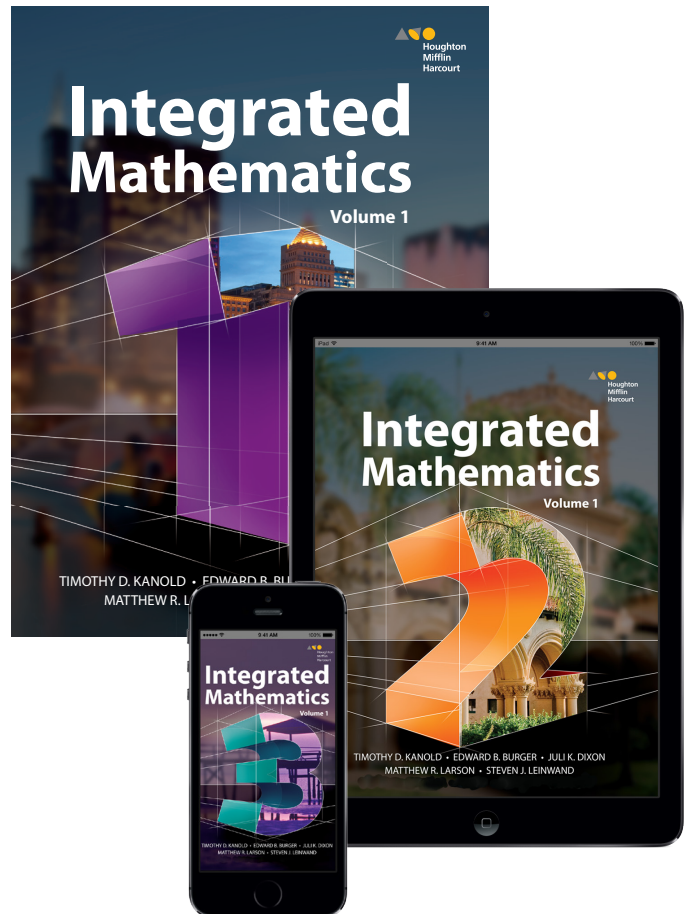
- Module 19: Angles in Circles
- Module 20: Arc Length and Sector Area

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- Module 21: Volume Formulas

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- Module 23: Conditional Probability and Independence of Events
- Module 24: Probability to Make Fair Decisions

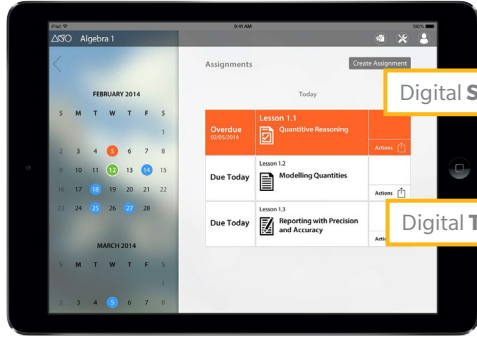


A full list of program components and prices begins on page 82 >>

core program

A Truly Blended Approach to Instruction

Digital Components



Digital Student Experience

Digital Teacher Experience

- HMH Player app
- Interactive Student Edition
- Student Dashboard



Personal Math Trainer™

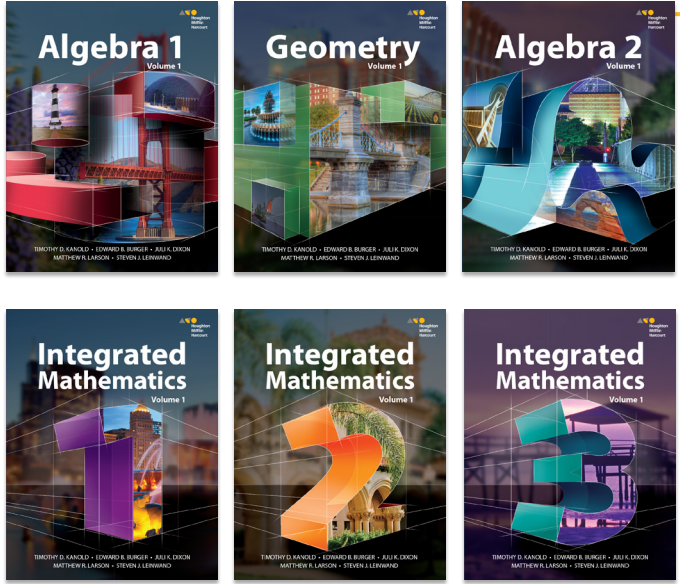


KNEWTON

- HMH Player app
- Interactive Teacher Edition
- Teacher Dashboard



Print Components



- Write-in or Hardcover Student Edition
- Teacher Edition with Solutions Key
- Response to Intervention Teacher Resource

Analyzing Functions

ESSENTIAL QUESTION: How can you analyze functions to solve real-world problems?

PROFESSIONAL DEVELOPMENT VIDEO

3 Module 1

1.1 Domain, Range, and End Behavior

Common Core Math Standards

Language Objective

ENGAGE

Essential Question: How can you determine the domain, range, and end behavior of a function?

PREVIEW: LESSON PERFORMANCE TASK

digital student resources

An Engaging and Interactive Approach to Learning

AGA and *Integrated Mathematics 1, 2, 3* deliver the next-generation Digital Student Experience. Compatible with all Internet-enabled devices, the Digital Student Experience enables students to access all their lesson content online or offline, features digital answer submission functionality, and offers point-of-use links to embedded media, interactivities, and assessments in every lesson.

HMH Player: An All-in-One Classroom Application



This game-changing app for students*:

- Provides direct access to program materials and lesson resources
- Includes digital engagement features, such as **gamification** and **classroom collaboration**
- Synchronizes with the Interactive Student Edition and Student Dashboard, so students can work **online** or **offline** without missing a beat.

*HMH Player is also available for the teacher

Digital lessons are the primary method of instructional delivery and follow the **research-based 5 E model**, providing a lesson framework that balances the need for procedural fluency and conceptual development with the Mathematical Practices.



HIGH SCHOOL
grades 9–12

Lesson 9.2 Data Distributions and Outliers

Explore Concept 1

Using Dot Plots to Display Data

A **dot plot** is a data representation that uses a number line and X's, dots, or other symbols to show frequency. Dot plots are sometimes called *line plots*.

Twelve employees at a small company make the following annual salaries (in thousands of dollars):
35, 40, 40, 45, 45, 45, 50, 50, 55, 55, 60, and 70.

Explain Concept 2

Graphing Functions Using a Domain of All Real Numbers

If the domain of a function is all real numbers, an infinite number of ordered pairs satisfy it. Arrowheads are drawn at both ends of a line or smooth curve to represent the infinite number of ordered pairs. If a domain is not provided, it can be assumed that the domain is all real numbers.

Graphing Functions Using a Domain of All Real Numbers

Elaborate

Is plotting two points enough to see a pattern for the graph?

Evaluate

Question Example Step by Step

Graph the function for the given domain.

$$y = 2x - 0(-4, -2, 0, 2)$$

AGA & Integrated Mathematics

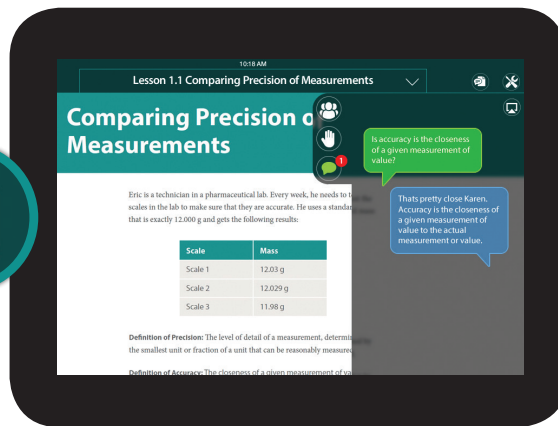
A full list of program components and prices begins on page 82 >>

digital student resources

Classroom Collaboration

Within **HMH Player**, students can collaborate both in and out of the classroom by messaging the teacher.

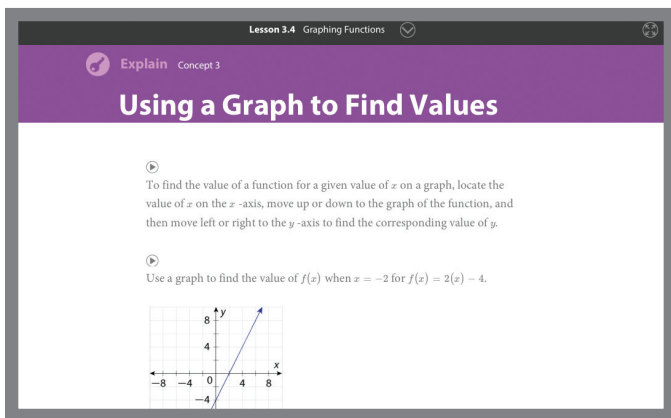
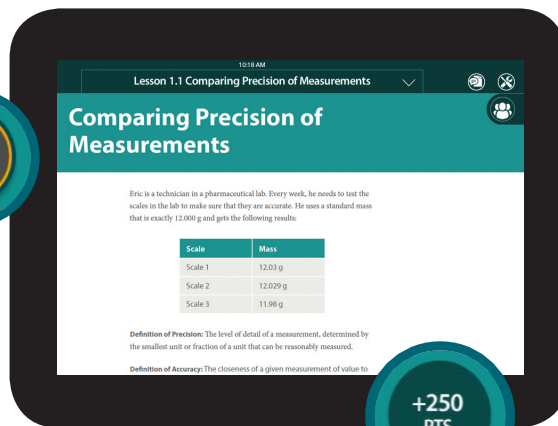
- Students can “**raise a hand**” within the app to ask or answer questions.
- Teachers can set up study groups, provide activities that foster synergy among students and classes, and send notifications and immediate feedback to the whole class or to individual students.



Gamification

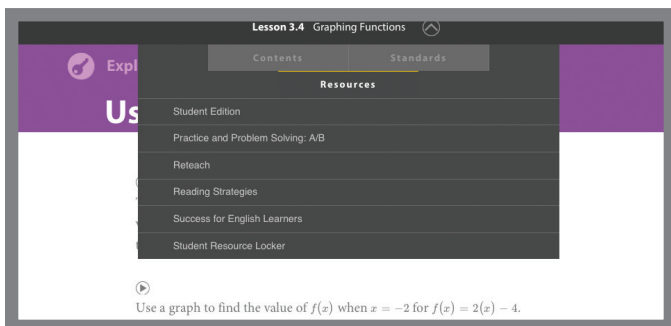
HMH Player features game mechanics and dynamic scoring, including badges and points for achievement, which can be useful for improving motivation and learning.

Game players regularly exhibit persistence, risk-taking, attention to detail, and problem-solving—all behaviors that align to the Mathematical Practices.



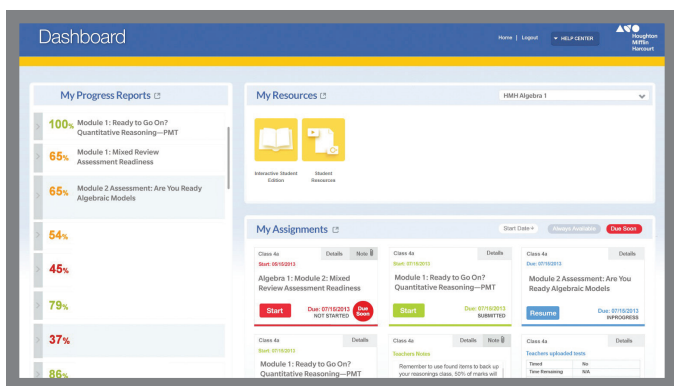
Interactive Student Edition

The Interactive Student Edition is based on the 5Es of instruction with interactive pathways. Embedded features include Real-World Videos, Math on the Spot Video Tutorials, **Personal Math Trainer Powered by Knewton**, and the Student Resource Locker.



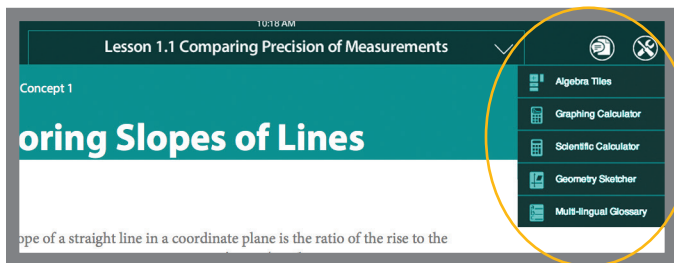
Student Resource Locker

The Student Resource Locker provides quick access to engaging videos, activities, and resources for every lesson!



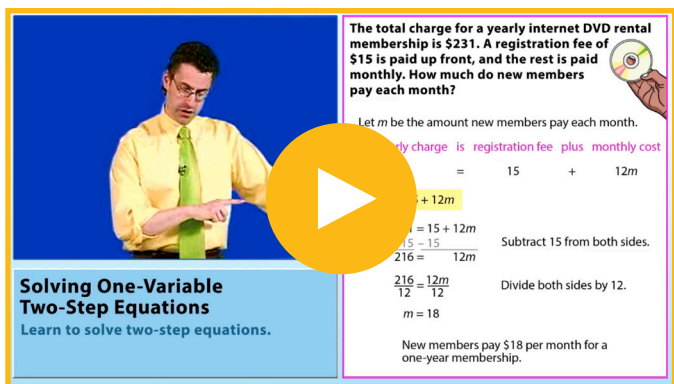
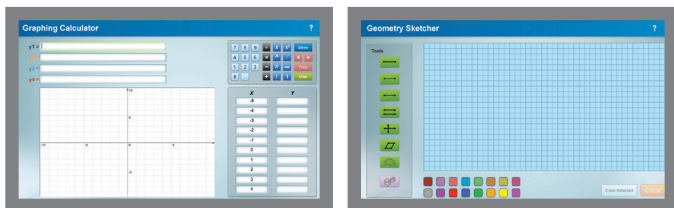
Student Dashboard

The Student Dashboard provides student access to My Progress Reports, My Resources, and My Assignments. All work done in **HMH Player** and the Interactive Student Edition syncs with the Student Dashboard.



Virtual Tools

Virtual Tools allow students to explore interactively and practice key math concepts and skills.



Math on the Spot Video Tutorials

These engaging video tutorials, featuring program author Dr. Edward Burger, accompany every example in the program and give students step-by-step instructions and explanations of key math concepts.

They are the perfect tool for students in need of additional support or an alternative approach to instruction.



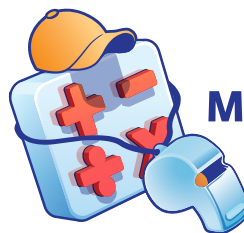
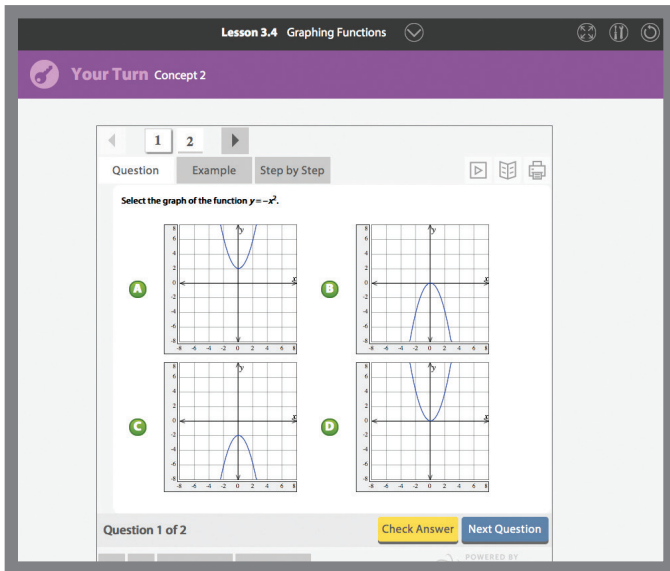
Real-World Videos

Real-world videos featuring HMH author Dr. Michael Heithaus engage students with interesting and relevant applications of each module's mathematical content, tied to each lesson's performance task.

A full list of program components and prices begins on page 82 >>

personalized and adaptive learning

Personal Math Trainer Powered by Knewton



**Personal
Math Trainer™**

Personal Math Trainer is the ultimate online, adaptive assessment and personalized learning system for students, with an automatic reporting and intervention system for the teacher.

Personal Math Trainer delivers pre-built assignments directly from the Digital Student Experience for homework and tests, as well as daily, course, and standards-based intervention.



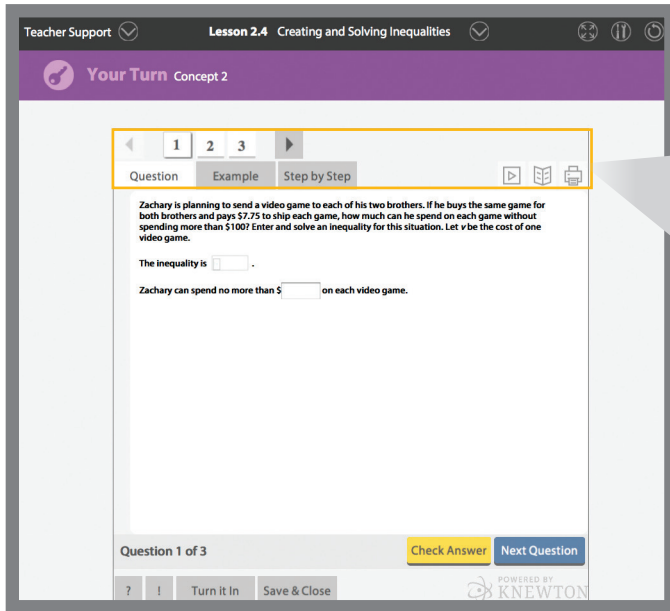
POWERED BY

Personal Math Trainer Powered by Knewton, part of Houghton Mifflin Harcourt's flagship HMH *Algebra 1*, *Geometry*, *Algebra 2* and *Integrated 1, 2, and 3* programs, will be the first K–12 product to combine HMH content with Knewton technology.

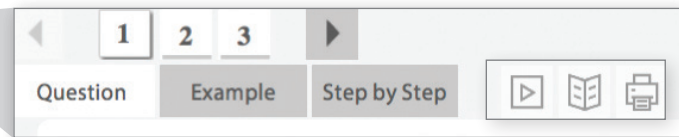
This technology allows teachers to:

- **Analyze** each student's interactions with the program content down to the concept level to determine personal strengths, weaknesses, preferences, and pace
- **Provide personalized trajectories** for every student to ensure the most efficient path to achieving learning goals
- Provide each student with **targeted recommendations** for other assignments
- **Gain real-time insights** into each student's needs, challenges, and learning styles, so they can quickly and easily change the course of their instruction to meet ALL student needs.

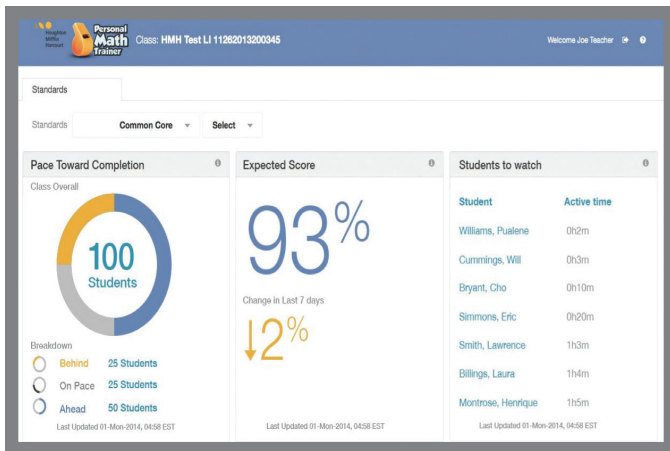
A closer look at Personal Math Trainer



Each question is supported by learning aids that help develop students' understanding of concepts, including guided examples, step-by-step solutions, video tutorials, and Animated Math.



Included in each assessment are a variety of item types and tech-enhanced items. In both practice and homework exercises, students receive real-time feedback for every problem they answer.

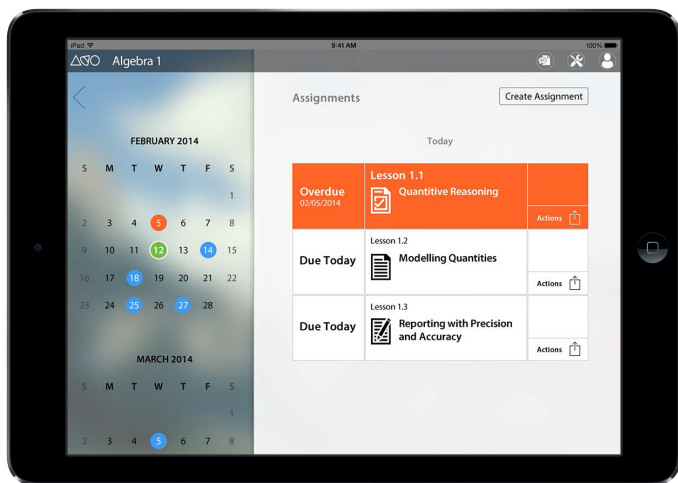


With multiple reporting options, **Personal Math Trainer** enables teachers to view information by individual student, whole class, standard, and test items—all with predictive analytics.

A full list of program components and prices begins on page 82 >>

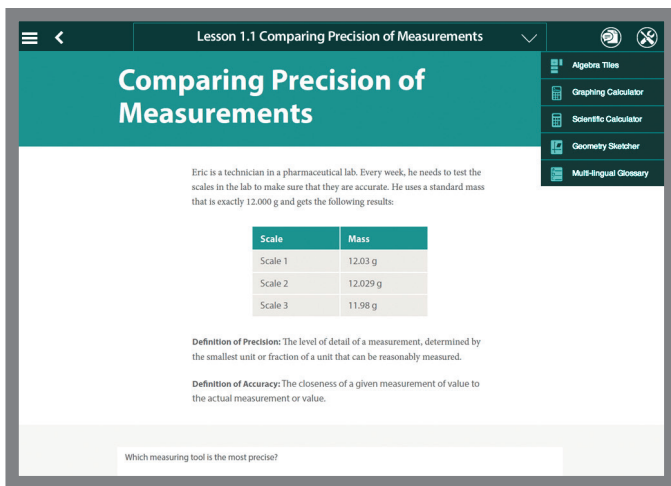
digital teacher resources

HMH Player: One Place. Multiple Capabilities. Plan. Create. Manage.



The Digital Teacher Experience is also built around **HMH Player**, which supports teachers through **every stage of their instruction**, from planning and implementation, to assessment and remediation.

With **HMH Player**, teachers have access to a full suite of instructional resources—online, offline, or on-the-go. Teachers can also customize lessons and import their own content from outside of the HMH program. Once class begins, teachers can present interactive lessons to the entire class right from their app.



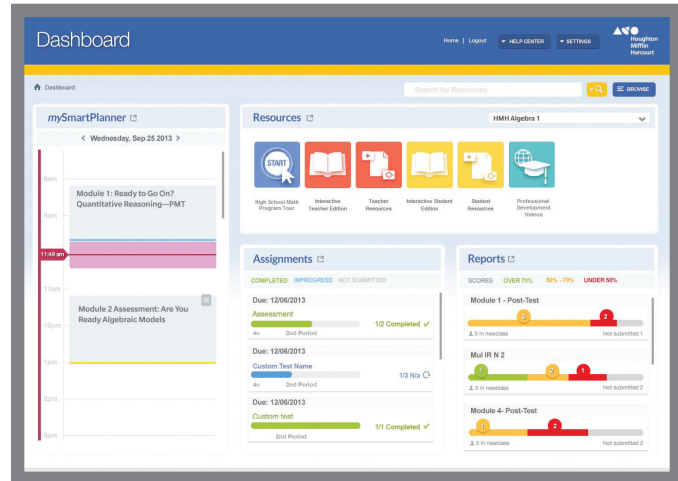
ePlanner

With the **HMH Player ePlanner**, teachers can easily plan their classes, create and view assignments, and access all program resources with online, customizable planning tools.

Teacher Dashboard

The Teacher Dashboard provides quick access to the Interactive Teacher Edition, Reports, Assignments, Professional Development Videos, mySmartPlanner, presentation tools, and more.

All student work and grades are synced with the Teacher Dashboard. Best of all, work in **HMH Player** and the Interactive Teacher Edition automatically syncs with the Teacher Dashboard.



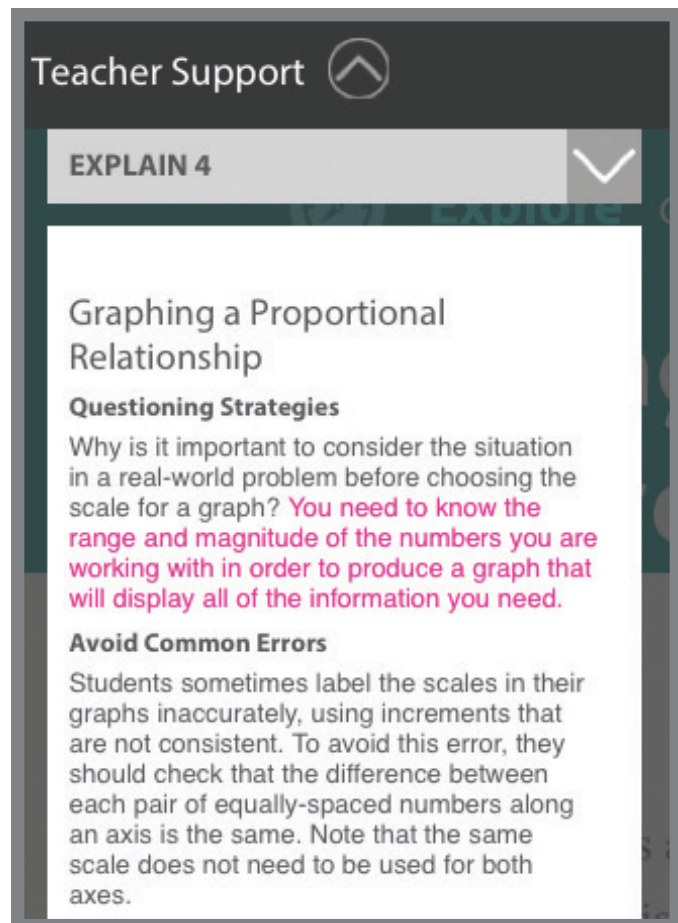
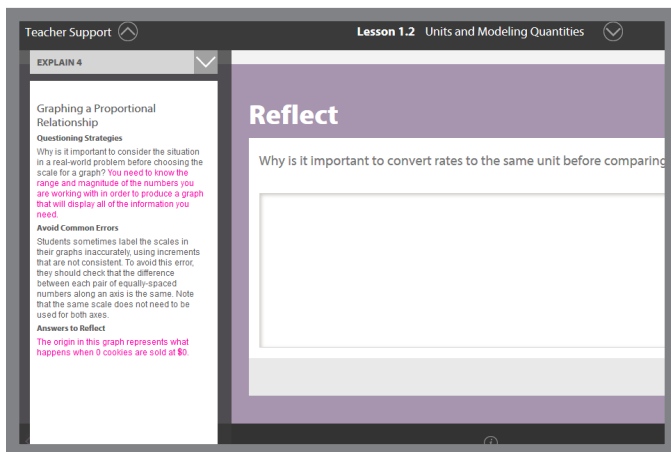
HIGH SCHOOL
grades 9–12

Interactive Teacher Edition

Based on the 5E instructional model, the Interactive Teacher Edition allows teachers to add personalized content to lessons and save notes online while sharing the content with students from an interactive whiteboard.

The Interactive Teacher Edition supports teachers with point-of-use Questioning Strategies, teaching tips, resources for differentiated instruction, additional activities, professional development videos, and more.

All work done in the Interactive Teacher Edition and HMH Player syncs with the Teacher Dashboard.



AGA & Integrated Mathematics

digital teacher resources

Name _____ Class _____ Date _____

1.1 Solving Equations

Essential Question: How do you solve an equation in one variable?

EXPLORE A1.5.A...solve linear equations in one variable

Explore Solving Equations by Guess-and-Check or by Working Backward

An **equation** is a mathematical sentence that uses the equal sign = to show two expressions are equivalent. The expressions can be numbers, variables, constants, or combinations thereof.

There are many ways to solve an equation. One way is by using a method called **guess-and-check**. A guess-and-check method involves guessing a value for the variable in an equation and checking to see if it is the solution by substituting the value in the equation. If the resulting equation is a true statement, then the value you guessed is the solution of the equation. If the equation is not a true statement, then you adjust the value of your guess and try again, continuing until you find the solution.

Another way to solve an equation is by **working backward**. In this method, you begin at the end and work backward toward the beginning.

Solve the equation $x - 6 = 4$ using both methods.

Use the **guess-and-check** method to find the solution of the equation $x - 6 = 4$.

A Guess 11 for x .

$$\begin{array}{r} x - 6 = 4 \\ \square - 6 \stackrel{?}{=} 4 \\ \square - 6 \stackrel{?}{=} 4 \\ \square - 6 \stackrel{?}{=} 4 \end{array}$$

Is 11 the solution of $x - 6 = 4$? _____

B The value 11 is too high. Guess 10 for x .

$$\begin{array}{r} x - 6 = 4 \\ \square - 6 \stackrel{?}{=} 4 \\ \square - 6 \stackrel{?}{=} 4 \\ \square - 6 \stackrel{?}{=} 4 \end{array}$$

Is 10 the solution of $x - 6 = 4$? _____

C Use the **working backward** method to find the solution of the equation $x - 6 = 4$.

$$\begin{array}{r} 4 + 6 = \square \\ \square - 6 \stackrel{?}{=} 4 \end{array}$$

Is this the value of x before taking away 6? _____

Reflect

1. Discussion Which method of solving do you think is more efficient? Explain your answer.

Module 1 5 Lesson 1



Personal Math Trainer™



Differentiated Instruction and Intervention

Support all learners with Differentiated Instruction Resources, including:

- Leveled Practice and Problem Solving
- Reading Strategies
- Success for English Learners
- Challenge

Personal Math Trainer Powered by Knewton

will automatically create daily personalized intervention assignments for students, targeting each student's individual needs—for both struggling and advanced students.

Lessons at a Glance

5E instructional support your students can access with ease



ENGAGE

Have students preview the Real-World Video tied to the Lesson Performance Task in the Interactive Student Edition or HMH Player.



EXPLORE

Show them how they can interact with new concepts to develop a deeper understanding of mathematics.



EXPLAIN

Assign step-by-step interactive examples and associated Math on the Spot video tutorials to help them develop procedural fluency. Then have them use Personal Math Trainer to check their understanding.



ELABORATE

Ask them to show their understanding and reasoning with Reflect and Elaborate questions.



EVALUATE

Encourage them to practice and apply skills and concepts at various DOK levels with Evaluate exercises and a Lesson Performance Task. All student work and grades are synced with the Teacher Dashboard. Best of all, work in **HMH Player** and the Interactive Teacher Edition automatically syncs with the Teacher Dashboard.

student and teacher print resources

Student Resources

The **Write-in Student Edition** contains rigorous problem sets, as well as real-world problem solving and performance tasks. Digital learning aids are referenced and linked using QR codes.

The **Hardcover Student Edition** is a 4-color reformatted replication of the write-in version.



Resource Locker

Students can scan the QR code in their Student Edition to access their Resource Locker, where they'll find engaging videos, activities, and more for each lesson!

24. Match each statement with the algebraic expression that models it.

A. the price of a water coat and a 20% discount $x - 0.20x = 0.80x$

B. the base salary of an employee and a 2% salary increase $x + 0.02x = 1.02x$

C. the cost of groceries and a 2% discount with coupons $x - 0.02x = 0.98x$

D. the number of students attending school last year with a 20% increase from last year $x + 0.20x = 1.20x$

25. Critique Reasoning A student is given the rectangle and the square shown. The student states that the two figures have the same perimeter. Is the student correct? Explain your reasoning.

H.O.T. Focus on Higher Order Thinking

Emphasis on problem solving

Higher-Order Thinking problems highlight mathematical practices and require students to explain, justify, and critique reasoning in a problem-solving setting.

HIGH SCHOOL
grades 9–12

Teacher Resources

The **Teacher Edition with Solutions Key** is a hardcover resource that supports instruction through explanation of best practices, integration of Mathematical Practice Standards, and directions on how to incorporate the digital resources in the classroom.

A **Response to Intervention** Teacher Resource provides in-depth support for struggling or advanced students, including pre-requisite tests, skills fluency worksheets and formative assessments. Teachers are provided with strategy pages with information on identifying and combating misconceptions, as well as information on when and how to utilize **Personal Math Trainer**.

Analyzing Functions

ESSENTIAL QUESTION: How can you analyze functions to solve real-world problems?

PROFESSIONAL DEVELOPMENT VIDEO

How High Does a Pole Vaulter Go?

1.1 Domain, Range, and End Behavior

Common Core Math Standards

Language Objectives

ENGAGE

Essential Question: How can you determine the domain, range, and end behavior of a function?

Possible answer: The domain consists of values for which the function is defined or on which the real-world situation is based. The range consists of the corresponding $f(x)$ values. The end behavior describes what happens to the $f(x)$ values as the x values increase without bound or decrease without bound.

PREVIEW: LESSON PERFORMANCE TASK

View the video trigger. Discuss how the distance a car can travel is a function of the amount of gas in the car's gas tank. Have students identify the independent and dependent variables of the functional relationship. Then preview the Lesson Performance Task.

AGA & Integrated Mathematics

A full list of program components and prices begins on page 82 >>

Mobile Mathematics for a Generation on the GO!



Mobile Convenience for 21st-Century Teaching and Learning

HMH Algebra 1, Geometry, Algebra 2 and HMH Integrated Mathematics 1, 2, 3	
FOR THE STUDENT	FOR THE TEACHER
Access program content and resources 24/7, online and offline with HMH Player .	Access a full suite of teaching resources when and where you need them.
Use QR codes to gain instant access to the Student Resource Locker with instructional videos and virtual tools.	Customize and present course materials with collaborative activities and integrated formative assessments.
Learn and reinforce concepts with step-by-step interactive examples supported by Math On the Spot video tutorials.	Plan, present, and manage classes, assignments, and activities through the Digital Teacher Experience.
Check comprehension of new concepts and skills and get individualized support automatically with Personal Math Trainer .	View professional development videos by program authors for instructional support for each module.

20146-12 Mathematics INT/AP Catalog

professional development services

Our High School Math Professional Development Specialists have in-depth content and product knowledge plus classroom expertise to provide teachers the support they need for successful implementation.

Workshops

Professional Development for Initial Implementation Workshops are ideal for schools that recognize the importance of successfully implementing a proven, research-based math program. Our Implementation Directors work with districts to customize a professional development plan.

Advanced Implementation to Deepen Mastery Workshops are rich with reflection and collaboration. Participants gain a deep understanding of instruction and how best to apply this knowledge. Professional Development Specialists guide teachers through action planning to ensure they identify and meet their learning goals.



HIGH SCHOOL
grades 9–12

Embedded Video-Based PD

Embedded Professional Development Videos, featuring program authors Dr. Juli Dixon and Dr. Matt Larson, model successful teaching practices and strategies while implementing the Standards for Mathematical Practice in actual classroom settings.

These videos are accessible via the Teacher Dashboard, and QR codes in the Print Teacher Edition.

On-Site PD Courses from The Leadership and Learning Center®

Our unique on-site PD training solutions go beyond the seminar experience to provide the essential practices and resources to help you craft your professional learning plan. Courses for math educators include:

- Balancing Mathematics Instruction for Success
- Getting to the Core of the Common Core State Standards for Mathematics: Rigor, Range, and Relevance
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Schedule your Professional Development today!

For more information on workshops contact your local HMH Account Executive at hmhco.force.com/relocator

price list

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Algebra 1 Packages

Product	ISBN	Price
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Student Resources

Premium Student Resource Package

Interactive Student Edition Volumes 1 & 2 (1 per year for subscription duration)
 Online Student Edition with **Personal Math Trainer** (1 per year for subscription duration)
 Common Core Assessment Readiness Workbook (1 per year for subscription duration)

Premium Student Resource Package 1 Year (print/ digital per student) 978-0-544-52151-3 48.73

Hybrid Student Resource Package

Interactive Student Edition Volumes 1 & 2 (1 per year for subscription duration)
 Online Student Edition with **Personal Math Trainer** (1 per year for subscription duration)

Hybrid Student Resource Package 1 Year (print/ digital per student) 978-0-544-44906-0 39.80

Teacher Resource Package

Teacher's Edition with Solutions
 Online Teacher Resource Management Center (1 per year for subscription duration)
 Response to Intervention Blackline Masters
 Common Core Assessment Readiness
 Common Core Assessment Readiness Teacher Guide
 On Core Deluxe ExamView CD-ROM Grades 6-12
 On Core High School Activity Generator CD-ROM Grades 9-12
 Online Interactive Whiteboard Classroom Set

Teacher Resource Package 1 Year 978-0-544-44908-4 338.00

Algebra 1 Individual Program Components

Product	ISBN	Price
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Interactive Student Edition Volumes 1 & 2, 1 Year print subscription Algebra 1 978-0-544-40052-8 35.20

Teacher's Edition 978-0-544-38196-4 158.13

Online Student Edition with Personal Math Trainer 1-year Algebra 1 978-0-544-41793-9 26.40

Online Teacher Resource Management Center 1-year Algebra 1 978-0-544-38254-1 866.67

Response to Intervention 978-0-544-38197-1 48.53

Common Core Assessment Readiness 978-0-547-88126-3 6.27

Common Core Assessment Readiness Teacher Guide 978-0-547-87733-4 48.53

On Core Deluxe ExamView CD-ROM 978-0-547-68823-7 134.07

On Core High School Activity Generator 978-0-547-71252-9 125.80

Online Interactive Whiteboard Lessons 978-0-547-90901-1 381.33

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Geometry Packages

Product	ISBN	Price
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Student Resources

Premium Student Resource Package

Interactive Student Edition Volumes 1 & 2 (1 per year for subscription duration)
 Online Student Edition with **Personal Math Trainer** (1 per year for subscription duration)
 Common Core Assessment Readiness Workbook (1 per year for subscription duration)

Premium Student Resource Package 1 Year (print/ digital per student) 978-0-544-52014-1 49.80

Hybrid Student Resource Package

Interactive Student Edition Volumes 1 & 2 (1 per year for subscription duration)
 Online Student Edition with **Personal Math Trainer** (1 per year for subscription duration)

Hybrid Student Resource Package 1 Year (print/ digital per student) 978-0-544-52014-1 49.80

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 Response to Intervention Blackline Masters
 Common Core Assessment Readiness
 Common Core Assessment Readiness Teacher Guide
 On Core Deluxe ExamView CD-ROM Grades 6-12
 On Core High School Activity Generator CD-ROM Grades 9-12
 Online Interactive Whiteboard Classroom Set

Teacher Resource Package 1 Year 978-0-544-44915-2 338.00

Geometry Individual Program Components

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Interactive Student Edition Volumes 1 & 2, 1 Year print subscription Geometry 978-0-544-40053-5 35.93

Teacher's Edition with Solutions Geometry 978-0-544-38582-5 161.47

Online Student Edition with Personal Math Trainer 1 Year Geometry 978-0-544-41795-3 26.93

Online Teacher Resource Management Center 1 Year Geometry 978-0-544-38610-5 866.67

Response to Intervention Blackline Masters Geometry 978-0-544-38583-2 48.53

Common Core Assessment Readiness Geometry 978-0-547-87765-5 6.27

Common Core Assessment Readiness Teacher Guide Geometry 978-0-547-87714-3 48.53

On Core Deluxe ExamView CD-ROM Grades 6-12 978-0-547-68823-7 134.07

On Core High School Activity Generator CD-ROM Grades 9-12 978-0-547-71252-9 125.80

Online Interactive Whiteboard Classroom Set Geometry 978-0-547-91022-2 381.33

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Algebra 2 Packages

Product	ISBN	Price
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Student Resources

Premium Student Resource Package

Interactive Student Edition Volumes 1 & 2 (1 per year for subscription duration)
 Online Student Edition with **Personal Math Trainer** (1 per year for subscription duration)
 Common Core Assessment Readiness Workbook (1 per year for subscription duration)

Premium Student Resource Package 1 Year (print/ digital per student) 978-0-544-52061-5 50.80

Hybrid Student Resource Package

Interactive Student Edition Volumes 1 & 2 (1 per year for subscription duration)
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Hybrid Student Resource Package 1 Year (print/ digital per student) 978-0-544-44920-6 41.60

Teacher Resource Package

Teacher's Edition with Solutions
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 Common Core Assessment Readiness
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 On Core Deluxe ExamView CD-ROM Grades 6-12
 On Core High School Activity Generator CD-ROM Grades 9-12
 Online Interactive Whiteboard Classroom Set

Teacher Resource Package 1 Year 978-0-544-44922-0 338.00

Algebra 2 Individual Program Components

Product	ISBN	Price
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Interactive Student Edition Volumes 1 & 2, 1 Year print subscription Algebra 2 978-0-544-40054-2 36.67

Teacher's Edition with Solutions Algebra 2 978-0-544-38592-4 164.80

Online Student Edition with Personal Math Trainer 1-year Algebra 2 978-0-544-41796-0 27.47

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On Core High School Activity Generator CD-ROM Grades 9-12 978-0-547-71252-9 125.80

Online Interactive Whiteboard Classroom Set Algebra 2 978-0-547-90613-3 381.33

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Integrated Mathematics 1 Packages

Product	ISBN	Price
Student Resources		
Hybrid Student Resource Package		
Interactive Student Edition Volumes 1 & 2 (1 per year for subscription duration)		
Online Student Edition with Personal Math Trainer (1 per year for subscription duration)		
Hybrid Student Resource Package 1 Year (print/ digital per student)	978-0-544-44402-7	39.87
Teacher Resource Package		
Teacher's Edition with Solutions		
Online Teacher Resource Management Center (1 per year for subscription duration)		
Response to Intervention Blackline Masters		
On Core Deluxe ExamView CD-ROM Grades 6-12		
On Core High School Activity Generator CD-ROM Grades 9-12		
Teacher Resource Package 1 Year	978-0-544-44401-0	446.33

Integrated Mathematics 1 Individual Program Components

Product	ISBN	Price
Interactive Student Edition Volumes 1 & 2	978-0-544-39997-6	36.27
Online Student Edition with Personal Math Trainer 1-year	978-0-544-41797-7	27.27
Online Student Edition with Personal Math Trainer 6-year	978-0-544-41789-2	81.67
Online Teacher Resource Management Center 1-year	978-0-544-39195-6	433.33
Online Teacher Resource Management Center 6-year	978-0-544-39196-3	2,600.00
Teacher's Edition with Solutions	978-0-544-38978-6	163.27
Response to Intervention	978-0-544-38979-3	48.53

HMH Integrated Mathematics 2 © 2015
Integrated Mathematics 2 Packages

Product	ISBN	Price
Student Resources		
Hybrid Student Resource Package		
Interactive Student Edition Volumes 1 & 2 (1 per year for subscription duration)		
Online Student Edition with Personal Math Trainer (1 per year for subscription duration)		
Hybrid Student Resource Package 1 Year (print/ digital per student)	978-0-544-44398-3	39.87
Teacher Resource Package		
Teacher's Edition with Solutions		
Online Teacher Resource Management Center (1 per year for subscription duration)		
Response to Intervention Blackline Masters		
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Teacher Resource Package 1 Year	978-0-544-44404-1	446.33

Integrated Mathematics 2 Individual Program Components

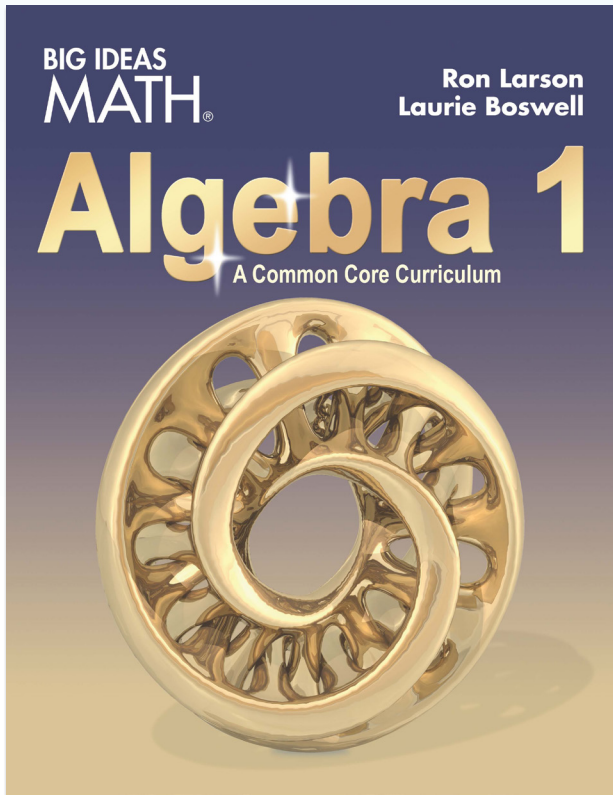
Product	ISBN	Price
Interactive Student Edition Volumes 1 & 2	978-0-544-39998-3	36.27
Online Student Edition with Personal Math Trainer 1-year	978-0-544-41798-4	27.27
Online Student Edition with Personal Math Trainer 6-year	978-0-544-41790-8	81.67
Online Teacher Resource Management Center 1-year	978-0-544-39199-4	433.33
Online Teacher Resource Management Center 6-year	978-0-544-39200-7	2,600.00
Teacher's Edition with Solutions	978-0-544-38986-1	163.27
Response to Intervention	978-0-544-38987-8	48.53

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Integrated Mathematics 3 Packages

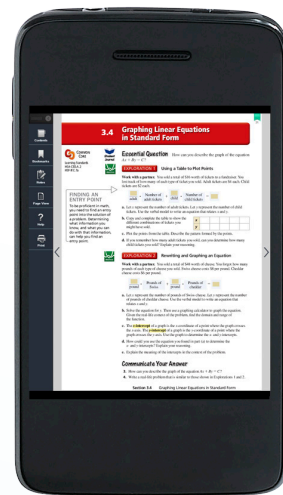
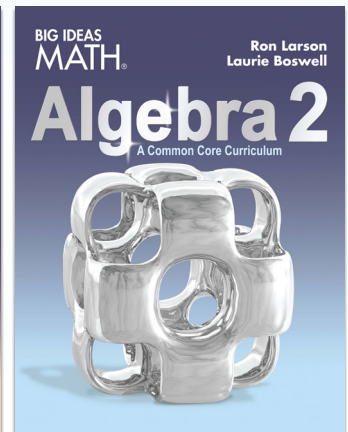
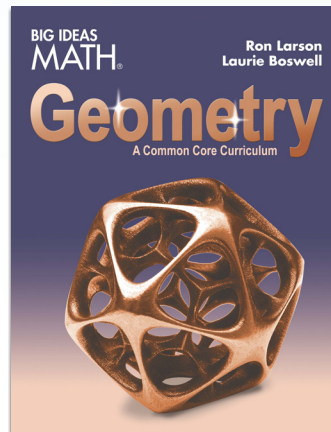
Product	ISBN	Price
Student Resources		
Hybrid Student Resource Package		
Interactive Student Edition Volumes 1 & 2 (1 per year for subscription duration)		
Online Student Edition with Personal Math Trainer (1 per year for subscription duration)		
Hybrid Student Resource Package 1 Year (print/ digital per student)	978-0-544-44372-3	39.87
Teacher Resource Package		
Teacher's Edition with Solutions		
Online Teacher Resource Management Center (1 per year for subscription duration)		
Response to Intervention Blackline Masters		
On Core Deluxe ExamView CD-ROM Grades 6-12		
On Core High School Activity Generator CD-ROM Grades 9-12		
Teacher Resource Package 1 Year	978-0-544-44408-9	446.33

Integrated Mathematics 3 Individual Program Components

Product	ISBN	Price
Interactive Student Edition Volumes 1 & 2	978-0-544-40007-8	36.27
Online Student Edition with Personal Math Trainer 1-year	978-0-544-41799-1	27.27
Online Student Edition with Personal Math Trainer 6-year	978-0-544-41794-6	81.67
Online Teacher Resource Management Center 1-year	978-0-544-39203-8	433.33
Online Teacher Resource Management Center 6-year	978-0-544-39204-5	2,600.00
Teacher's Edition with Solutions	978-0-544-38991-5	163.27
Response to Intervention	978-0-544-38992-2	48.53



BIG IDEAS MATH[®]



new for
2015

 **BIG IDEAS
LEARNING[®]**
Distributed exclusively by
Houghton Mifflin Harcourt™

Big Ideas Math

Algebra 1 Geometry Algebra 2

HIGH SCHOOL
grades 9–12

Your Common Core State Standards solution **Big Ideas Math**[®], by award-winning authors **Ron Larson** and **Laurie Boswell**, was developed for the Common Core State Standards and written with the Standards for Mathematical Practice as its foundation. **Big Ideas Math** closely follows the progressions documents and answers the call for a more focused, coherent, and rigorous high school mathematics curriculum. The curriculum is backed by a Dynamic Technology package available exclusively with **Big Ideas Math**.

Why Choose **Big Ideas Math**?

Ron Larson and Laurie Boswell

No other authorship team provides the balance of classroom experience and mathematical expertise that the **Big Ideas Math** program authors bring to the table. Ron Larson has dedicated his life to providing students with all of the tools they need to be successful in mathematics. Laurie Boswell is still active in the classroom and provides invaluable support for teachers.

Balanced Instructional Approach

Big Ideas Math is dedicated to the balanced approach to instruction. A full day is allotted in each lesson for student directed discovery learning, allowing them to develop conceptual understanding. The discovery learning is followed by teacher-directed instruction giving students the opportunity to utilize clear, precise mathematical language and structure.

Dynamic 21st-Century Technology

Big Ideas Learning, LLC integrated the very latest educational technology with its industry-leading mathematics curriculum. This Dynamic Technology package is available exclusively with the **Big Ideas Math** program and includes the Dynamic Assessment and Progress Monitoring Tool, Dynamic Student Edition eBook App, and Dynamic Teaching Tools.

Continuous Preparation for Assessment

Every section in the **Big Ideas Math** program utilizes question types frequently found on standardized tests. Every chapter also culminates in a Standards Assessment. The balanced approach to instruction and higher-order thinking problems embedded in the program help students develop the habits of mind required to be successful on high-stakes tests.

Big Ideas Math

Grades 9–12 © 2015

Authors: R. Larson, L. Boswell

hmhco.com/bigideasmath





core texts

Student Edition

The Student Edition was designed using the Universal Design for Learning Guidelines (CAST© 2011) and features carefully chosen images that increase student engagement and enhance the mathematical content.

Teaching Edition

The Teaching Edition provides teachers with complete support for every **Big Ideas Math** lesson. Master educator Laurie Boswell incorporates instructional insights and recommendations in Laurie’s Notes.

Dynamic Student Edition

The Dynamic Student Edition is a complete interactive version of the student text and contains embedded Investigations and direct links to remediation. It is available online and as a downloadable eBook App.

table of contents

Algebra 1

1. Solving Linear Equations
2. Solving Linear Inequalities
3. Graphing Linear Functions
4. Writing Linear Functions
5. Solving Systems of Linear Equations
6. Exponential Functions and Sequences
7. Polynomial Equations and Factoring
8. Graphing Quadratic Functions
9. Solving Quadratic Equations
10. Radical Functions and Equations
11. Data Analysis and Displays

Geometry

1. Basics of Geometry
2. Reasoning and Proofs
3. Parallel and Perpendicular Lines
4. Transformations
5. Congruent Triangles
6. Relationships Within Triangles
7. Quadrilaterals and Other Polygons
8. Similarity
9. Right Triangles and Trigonometry
10. Circles
11. Circumference, Area, and Volume

Algebra 2

1. Linear Functions
2. Quadratic Functions
3. Quadratic Equations and Complex Numbers
4. Polynomial Functions
5. Rational Exponents and Radical Functions
6. Exponential and Logarithmic Functions
7. Rational Functions
8. Sequences and Series
9. Trigonometric Ratios and Functions
10. Probability
11. Data Analysis and Statistics

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twitter.com/bigideasmath

facebook.com/bigideaslearning

instagram.com/bigideasmath

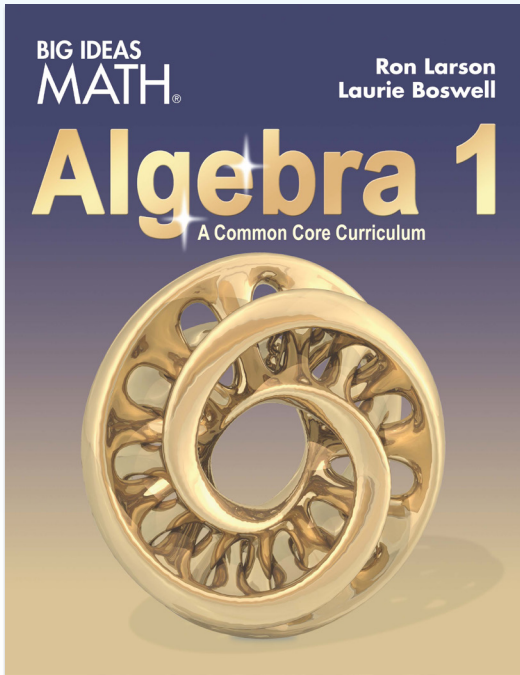
pinterest.com/bigideasmath

youtube.com/bigideaslearning

bigideasmath.com/blog

featured resources

Student Edition



Engaging Application

Big Ideas Math is a comprehensive math program developed for the Common Core State Standards that delivers focused instruction for all students. Real-life applications are utilized throughout the program, giving students the opportunity to connect classroom lessons to realistic scenarios, and allowing teachers to turn mathematical learning into an engaging and meaningful way to see and explore the real world.

Balanced Instructional Approach

The **Big Ideas Math** program follows a balanced instructional approach. The program balances conceptual understanding with procedural fluency, as research shows that students benefit from equal exposure to discovery learning and direct instruction.

Student Directed Discovery

Each section in the program begins with a discovery Exploration that encourages conceptual understanding. These provide students with the opportunity to explore, question, explain, and persevere as they seek to answer Essential Questions that encourage abstract thought.

HIGH SCHOOL
grades 9–12

4.2 Lesson

What You Will Learn

- ▶ Perform reflections.
- ▶ Perform glide reflections.
- ▶ Identify lines of symmetry.
- ▶ Solve real-life problems involving reflections.

Core Vocabulary

reflection, p. 182
line of reflection, p. 182
glide reflection, p. 184
line symmetry, p. 185
line of symmetry, p. 185

Performing Reflections

Core Concept

Reflections

A **reflection** is a transformation that uses a line like a mirror to reflect a figure. The mirror line is called the **line of reflection**.

A reflection in a line m maps every point P in the plane to a point P' , so that for each point one of the following properties is true:

- If P is not on m , then m is the perpendicular bisector of PP' , or
- If P is on m , then $P = P'$.

Point P not on m Point P on m

Teacher Directed Instruction

Each Exploration is followed by a direct instruction lesson. These lessons give students the opportunity to develop procedural fluency and to use clear, precise mathematical language. These lessons also give teachers opportunities to use class discussion, flexible grouping, and other delivery methods in their classrooms.

Exercises

Questions build in complexity requiring students to communicate precisely, use appropriate tools for problem solving, and ultimately construct viable arguments to defend their results.

featured resources

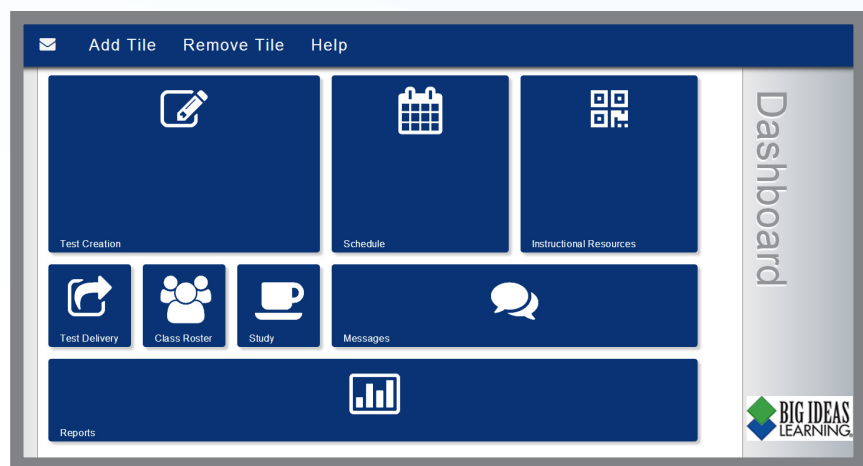
Dynamic Technology

Dynamic Assessment and Progress Monitoring Tool

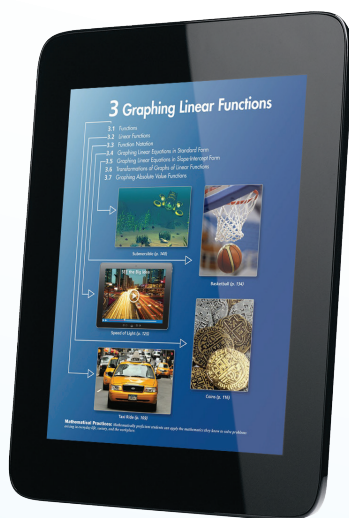
The Dynamic Assessment and Progress Monitoring Tool allows teachers to know where their students are and monitor their progress as they guide them to where they need to be. Teachers can create tests by Common Core State Standard or **Big Ideas Math** content. This diagnostic and prescriptive tool was developed exclusively for **Big Ideas Math** by Pacific Metrics, the educational technology powerhouse that provides assessment resources to PARCC and the Smarter Balanced Assessment Consortium.*

Feature Highlights

- Assessment Creation and Scheduling
 - Short answer and multiple-choice questions are automatically graded
 - Assign any Exercise for online homework
 - Adaptive testing features
- Direct Ties to Remediation
 - At point of use for students and teachers
- Customizable Reporting
 - Monitor student progress by individual or class
 - Configure reports by assessment or CCSS
- Assessment Delivery with Built-In Tools
 - Students have access to scientific calculators and other embedded tools when enabled
- Easy-to-use, drag-and-drop interface
 - Includes a customizable dashboard and scheduling module



Dynamic Student Edition



The Dynamic Student Edition is available online or as a downloadable eBook App. Students have access to the complete textbook and embedded interactive digital resources, including direct links to remediation and Interactive Investigations. Complete audio of each textbook, Vocabulary Flash Cards, and Lesson Tutorial Videos are included in both English and Spanish. All of the interactive resources are available offline after the app has been installed on a student's device.

Dynamic Teaching Tools

The **Big Ideas Math** program contains a number of support resources for teachers. These Dynamic Teaching Tools include:

Dynamic Classroom

This online interactive lesson presentation tool gives teachers access to all of the online resources that supplement every section of the **Big Ideas Math** program. These include Warm-Ups, Extra Examples, and the Answer Presentation Tool.

Interactive Whiteboard Lesson Library

Teachers can present any **Big Ideas Math** lesson from a SMART®, Promethean®, or Mimio® interactive whiteboard. Standard lessons and customizable templates are included.

Editable Online Resources

Editable versions of the Student Journal, Assessment Book, and Resources by Chapter ancillaries are available online on the **Big Ideas Math** website. The website also contains complete, editable Lesson Plans for every section of the program.

*This product is not endorsed by nor affiliated with PARCC or Smarter Balanced Assessment Consortium.

Dynamic Investigations

Big Ideas Math GeoGebra Investigation Activity 1

1 ACTIVITY: Sum of the Angles of a Triangle

Use the angle measure tool to measure the angles of each triangle. You can find an angle measure by selecting two lines or three points. Be sure to select in the correct order, otherwise you will measure the exterior angle. Delete Angle Measures

Record your results in the table in your journal.

a.

b.

c.

d.

Dynamic Investigations are powered by Desmos® and GeoGebra®. Teachers and students can integrate these investigations into their discovery learning to interact with the mathematical content in *Big Ideas Math* Explorations.

Real-Life STEM Videos

Big Ideas Math
Rotational Symmetry

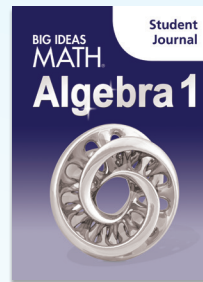
00:16 HD

Every chapter in the *Big Ideas Math* program contains a Real-Life STEM Video allowing students to further engage with mathematical concepts. Students learn about the speed of light, natural disasters, solar power, and more.

Multilingual Glossary

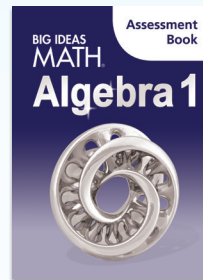
The online Multilingual Glossary includes a comprehensive list of mathematical terms in English, Spanish, Arabic, Armenian, Chinese, Haitian Creole, Hmong, Khmer, Korean, Punjabi, Russian, Tagalog, Urdu, and Vietnamese.

Print Resources



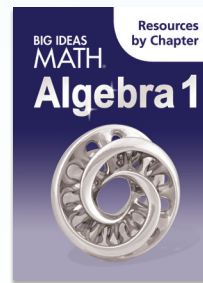
Student Journal

The Student Journal serves as a valuable resource where students may work extra problems, take notes about classroom lessons, and internalize new concepts by expressing their findings in their own words.



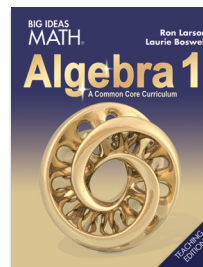
Assessment Book

The Assessment Book offers a variety of assessment options. Teachers will find formative and summative assessments, pre-course diagnostic tests, alternative assessments, standardized test practice with item analysis, quizzes, and end-of-course tests.



Resources by Chapter

This teaching resource contains letters home, activities, practice, projects, and much more to provide the teacher with flexibility and the student with quality enrichment.



Teaching Edition

The Teaching Edition provides complete support for every *Big Ideas Math* lesson. Master educator Laurie Boswell helps teachers implement the Standards for Mathematical Practice and shares classroom insights that she has gained through years of teaching experience.

Laurie also includes motivation suggestions, questioning strategies, and closure opportunities. The Teaching Edition provides Differentiated Instruction, Response to Intervention, and English Language Learner support.

featured resources

Continuous Preparation for Assessment

Every section of the **Big Ideas Math** program helps prepare students for success on high-stakes assessments. This program exposes students to multiple representations of problems and question types frequently found on Common Core assessments, including PARCC and Smarter Balanced items.* The balanced approach to instruction also helps students develop the habits of mind required to be successful on high-stakes tests.

The **Explorations** that begin each section require students to use higher-level thinking to work through each problem and to explain their reasoning in the solution.

Exercises provide students with opportunities to use multiple approaches to solve problems.

The **Performance Tasks** in every chapter of the program allow students to work with multiple standards and apply their knowledge to realistic scenarios.

Alternative Assessments provide teachers with the opportunity to assess students on the same content in a variety of ways.

Quizzes and Tests assess the concepts learned in each lesson and help teachers identify areas in which students may need additional support before moving forward.

A **Standards Assessment** is included with every chapter in the program. Questions were carefully chosen to represent problem types and reasoning patterns frequently found on standardized tests.

The **Dynamic Assessment and Progress Monitoring Tool** allows teachers to develop customized practice sets for each student or for an entire classroom. Automatically graded short-answer and multiple-choice questions also allow students to receive immediate feedback on their progress, and access remediation when necessary. Built-in remediation resources are included at point of use for both students and teachers.

*This product is not endorsed by nor affiliated with PARCC or Smarter Balanced Assessment Consortium.

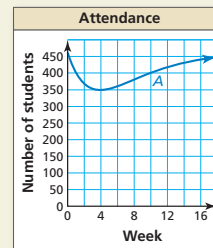
EXPLORATION 1 Reflecting a Triangle Using a Reflective Device

Work with a partner. Use a straightedge to draw any triangle on paper and label it $\triangle ABC$.

- Use the straightedge to draw a line that does not pass through the triangle and label it m .
- Place a reflective device on line m .
- Use the reflective device to plot the images of the vertices of $\triangle ABC$. Label the images of vertices A , B , and C as A' , B' , and C' , respectively.
- Use a straightedge to draw $\triangle A'B'C'$ by connecting the vertices.



34. **HOW DO YOU SEE IT?** The function $y = A(x)$ represents the attendance at a high school x weeks after a flu outbreak. The graph of the function is shown.



- What happens to the school's attendance after the flu outbreak?
- Estimate $A(13)$ and explain its meaning.
- Use the graph to estimate the solution(s) of the equation $A(x) = 400$. Explain the meaning of the solution(s).
- What was the least attendance? When did that occur?
- How many students do you think are enrolled at this high school? Explain your reasoning.

29. **MAKING AN ARGUMENT** Your friend claims the uneven parallel bars in gymnastics are not really parallel. She says one is higher than the other, so they cannot be in the same plane. Is she correct? Explain.



40. **ERROR ANALYSIS** You deposit \$250 in an account that pays 1.25% annual interest. Describe and correct the error in finding the balance after 3 years when the interest is compounded quarterly.

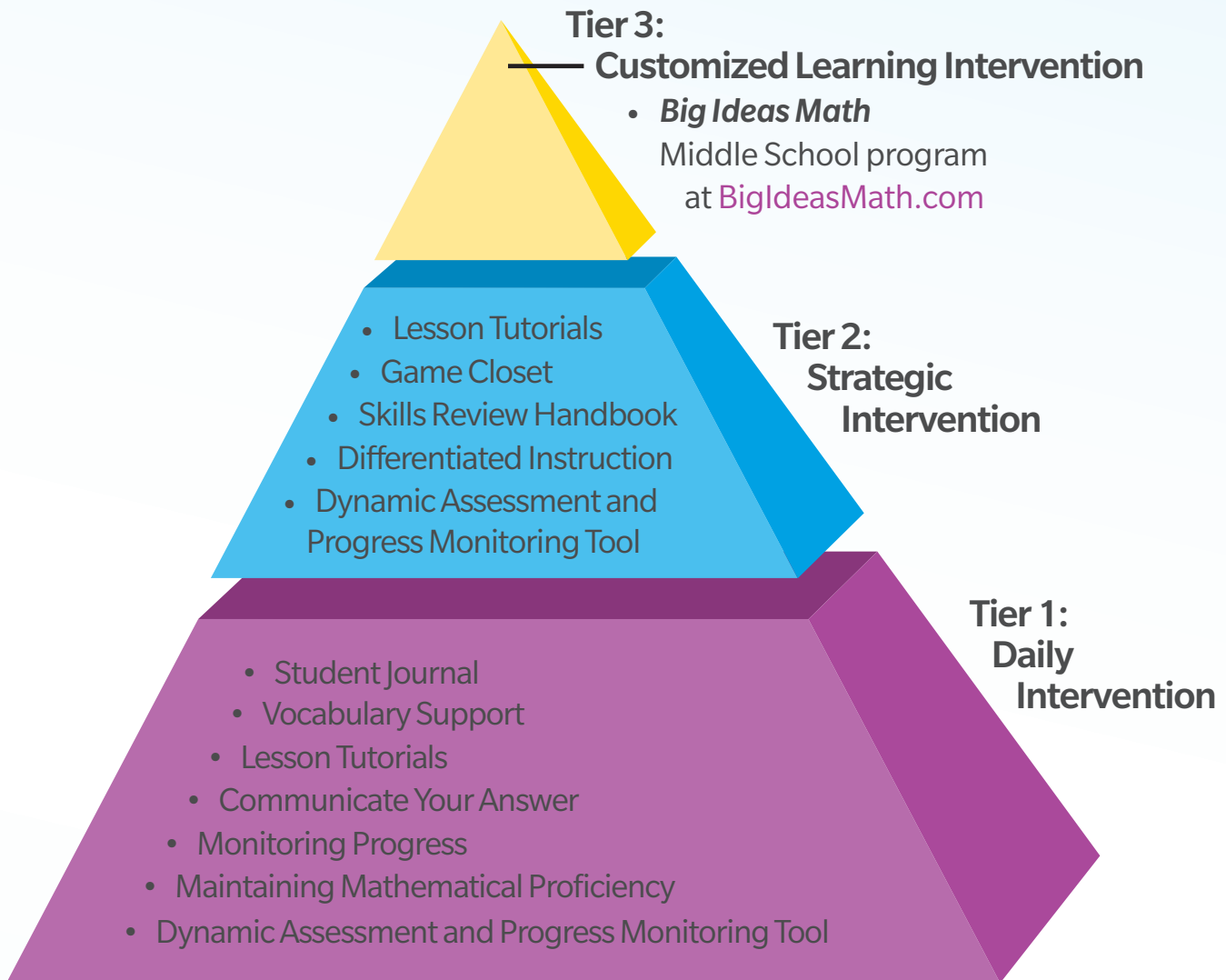
X $A = 250 \left(1 + \frac{1.25}{4} \right)^{4 \cdot 3}$
 $A = \$6533.29$

Differentiated Instruction

Through print and digital resources, the **Big Ideas Math** program completely supports the 3-Tier Response to Intervention model. Using research-based strategies, teachers can reach, challenge, and motivate each student with high-quality instruction targeted to individual needs.

Skills Review Handbook

This handbook provides a review of previously learned skills for students who are in need of additional support.



HIGH SCHOOL
grades 9–12

Big Ideas Math

price list

Big Ideas Math Algebra 1: A Common Core Curriculum © 2015

Product	ISBN	Price
Student Resource Package		
Record and Practice Journal (1 per year for subscription duration)		
Dynamic Online Student Resources (1 for subscription duration)		
Student Resource Package 1 Year	978-0-544-58569-0	45.00
Individual Resources		
Student Edition	978-1-608-40838-2	104.00
Teaching Edition	978-1-608-40841-2	200.00
Student Journal	978-1-608-40852-8	21.00
Assessment Book	978-1-608-40855-9	105.33
Resources by Chapter	978-1-608-40858-0	452.00
Online Components		
Dynamic Online Student Resources, 1-year	978-1-608-40880-1	24.00

Big Ideas Math Geometry: A Common Core Curriculum © 2015

Product	ISBN	Price
Student Resource Package		
Record and Practice Journal (1 per year for subscription duration)		
Dynamic Online Student Resources (1 for subscription duration)		
Student Resource Package 1 Year	978-0-544-58587-4	45.00
Individual Resources		
Student Edition	978-1-608-40839-9	104.00
Teaching Edition	978-1-608-40842-9	200.00
Student Journal	978-1-608-40853-5	21.00
Assessment Book	978-1-608-40856-6	105.33
Resources by Chapter	978-1-608-40859-7	452.00
Online Components		
Dynamic Online Student Resources, 1-year	978-1-608-40881-8	24.00

Big Ideas Math Algebra 2: A Common Core Curriculum © 2015

Product	ISBN	Price
Student Resource Package		
Record and Practice Journal (1 per year for subscription duration)		
Dynamic Online Student Resources (1 for subscription duration)		
Student Resource Package 1 Year	978-0-544-58605-5	45.00
Individual Resources		
Student Edition	978-1-608-40840-5	104.00
Teaching Edition	978-1-608-40867-2	200.00
Student Journal	978-1-608-40854-2	21.00
Assessment Book	978-1-608-40857-3	105.33
Resources by Chapter	978-1-608-40860-3	452.00
Online Components		
Dynamic Online Student Resources, 1-year	978-1-608-40882-5	24.00

all print
components
are also
available online

HIGH SCHOOL
grades 9–12

Big Ideas Math

Online Teaching Resources contain:

Teaching Edition Online, Dynamic Assessment and Progress Monitoring Tool, Lesson Plans Online, Journal Online, Journal Answer Key Online, Assessment Book Online, Worked-Out Solutions Online, Resources by Chapter Online, Differentiating the Lesson Online, Answer Presentation Tool Online, Dynamic Classroom Online, Big Ideas Math Skills Review Handbook Online

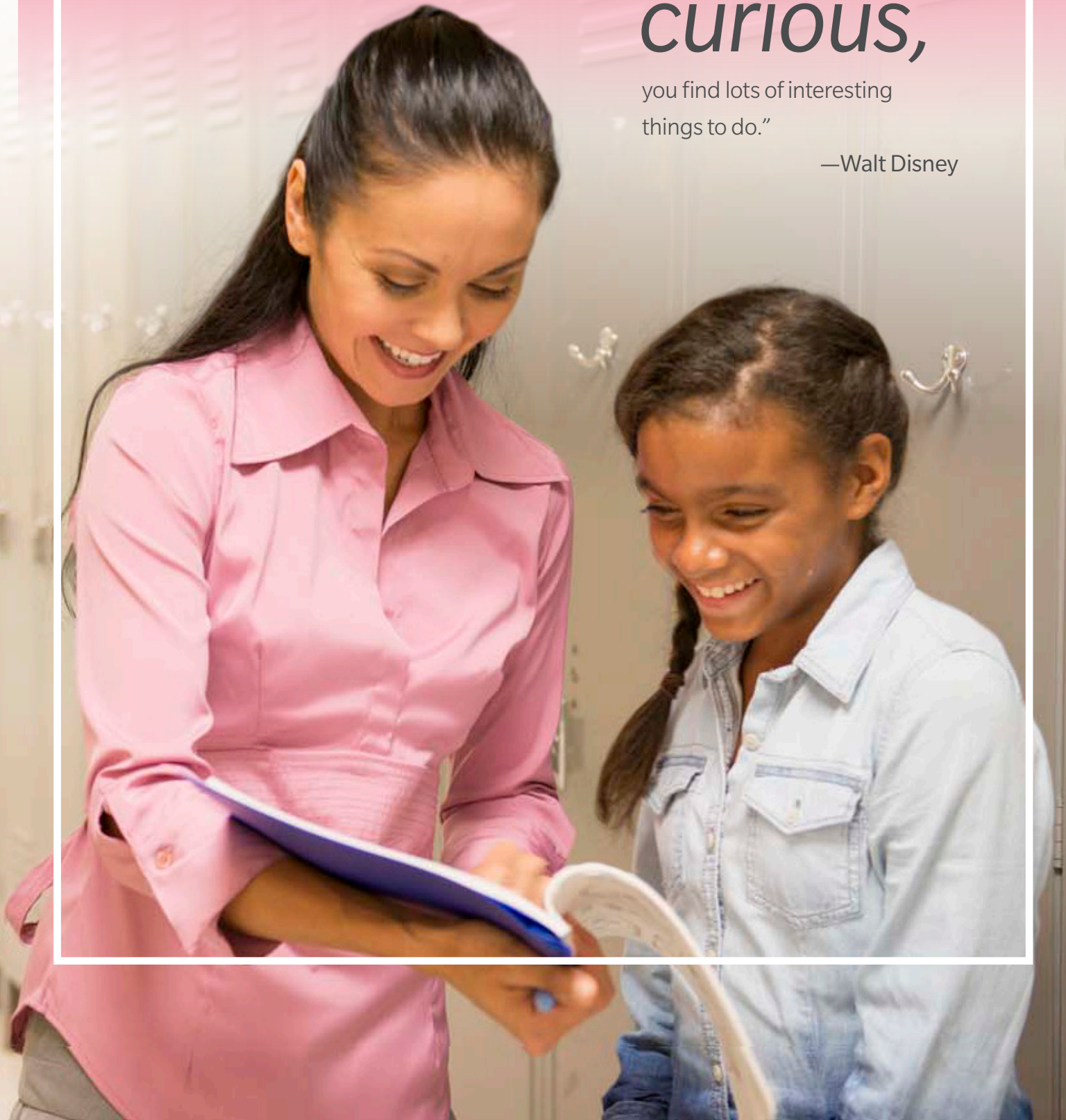
Inspiring Curiosity

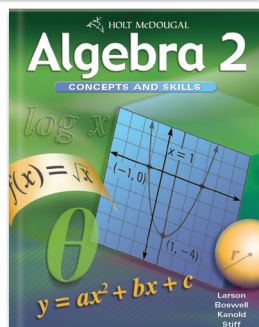
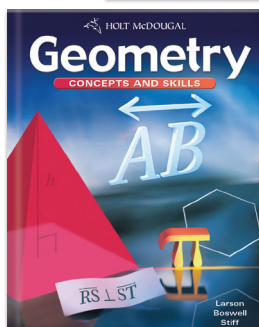
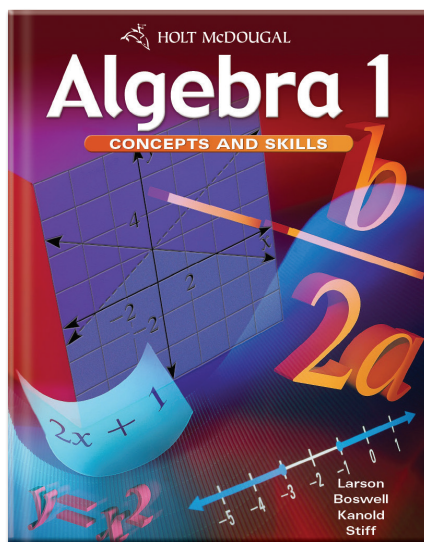
“When you’re

curious,

you find lots of interesting
things to do.”

—Walt Disney





Algebra 1 Geometry Algebra 2

Concepts and Skills

The **Concepts and Skills** program meets the needs of all learning levels by providing an accessible approach that helps students to be successful in high school mathematics.

The Houghton Mifflin Harcourt Advantage

A Solid Foundation in the Fundamentals

Built-in learning support helps students master concepts one at a time. The texts include visual learning strategies, easy-to-follow examples, and help notes for homework, vocabulary, and problem solving.

Flexibility and Manageable Pacing

A variety of teaching tools and presentation of material help keep active learners focused. Practice problems gradually increase in difficulty, and **Geometry** presents a paced approach to proofs.

Abundant Practice for Students

Numerous exercises reinforce concepts and ensure that students are ready for assessment success. Guided practice targets specific skills.

core texts

Student Edition

Makes algebra and geometry understandable to all students through instructional diagrams and graphics, investigations, activities, and numerous examples.

Teacher's Edition

Includes teaching ideas, leveled pacing and assignment guides, and reteaching suggestions.

eEdition Online

This online book version allows students to explore concepts through interactive features and access ClassZone support with direct links.

eEdition DVD-ROM

Offers a versatile and convenient way for students to access the program's core content.

Grades 8–12 © 2010, © 2008

Authors: Larson, Boswell, Kanold, Stiff

hmhco.com/conceptsandskills



table of contents featured resources

Algebra 1: Concepts and Skills

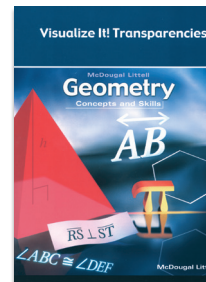
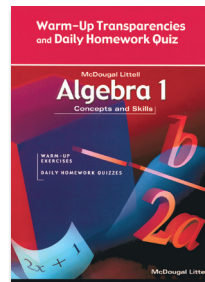
1. Connections to Algebra
2. Properties of Real Numbers
3. Solving Linear Equations
4. Graphing Linear Equations and Functions
5. Writing Linear Equations
6. Solving and Graphing Linear Inequalities
7. Systems of Linear Equations and Inequalities
8. Exponents and Exponential Functions
9. Quadratic Equations and Functions
10. Polynomials and Factoring
11. Rational Expressions and Equations
12. Radicals and More Connections to Geometry

Geometry: Concepts and Skills

1. Basics of Geometry
2. Segments and Angles
3. Parallel and Perpendicular Lines
4. Triangle Relationships
5. Congruent Triangles
6. Quadrilaterals
7. Similarity
8. Polygons and Area
9. Surface Area and Volume
10. Right Triangles and Trigonometry
11. Circles

Algebra 2: Concepts and Skills

1. Tools of Algebra
2. Linear Equations and Functions
3. Systems of Linear Equations
4. Inequalities and Absolute Value
5. Quadratic Functions and Factoring
6. Polynomials and Polynomial Functions
7. Powers, Roots, and Radicals
8. Exponential and Logarithmic Functions
9. Rational Equations and Functions
10. Data Analysis and Probability
11. Discrete Mathematics
12. Introduction to Trigonometry
13. Conic Sections



Warm-Up Transparencies and Daily Homework Quiz

Provides warm-ups to prepare students for the lesson and also includes a short quiz on homework from the previous lesson.

Practice Workbook

Consumable workbook that provides practice for every lesson.

Multi-Language Glossary

Provides essential math vocabulary translated into Spanish, Chinese, Vietnamese, Cambodian, Laotian, Arabic, Haitian Creole, Russian, and Portuguese.

Two-Year Algebra 1 Resources

Diagnostic chapter and end-of-course tests—plus review and practice.

Chapter Resource Book

Contains three levels of practice worksheets and a challenge worksheet for every lesson, along with Teacher Guides, Study Guides, Cumulative Reviews, Parents as Partners, and more.

Assessment Book

Features a pre-course test, quizzes, leveled chapter tests, standardized chapter tests, alternative assessments, cumulative tests, and an end-of-course test.

Remediation Book Rtl tier 1

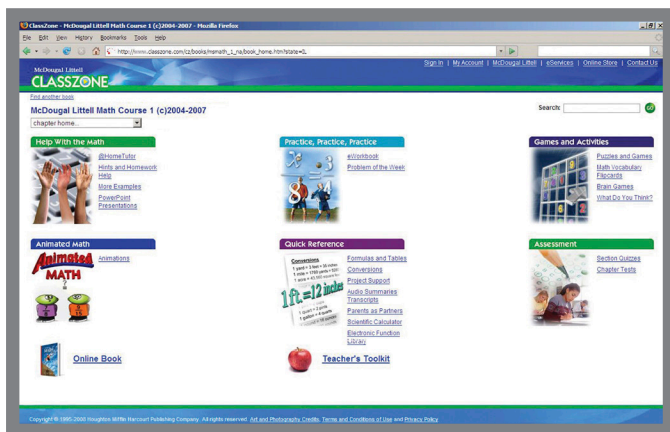
Offers quick remediation tools based on students' progress on diagnostic and benchmark tests.

Visualize It! Transparencies

Geometric concepts with graphic presentations that students can understand (Geometry only).

A full list of program components and prices begins on page 97 >>

digital resources



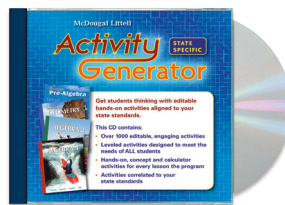
ClassZone.com

This online guide to the **Concepts and Skills** series features:

- Real-world and career links correlated to the textbooks (algebra and geometry)
- Homework help with examples and problem-solving tips

EasyPlanner DVD-ROM

Features all the teaching resources you need, on one DVD-ROM.

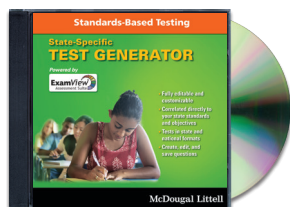


Activity Generator

Guides students from the concrete to the abstract with easily customized and leveled hands-on activities, aligned to your state standards.

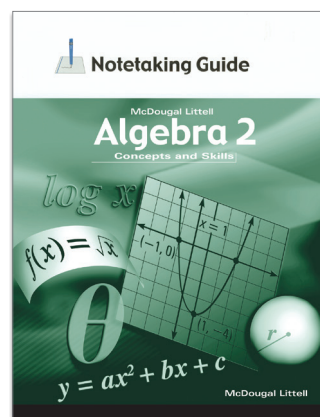
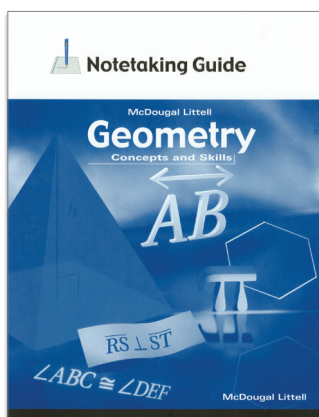
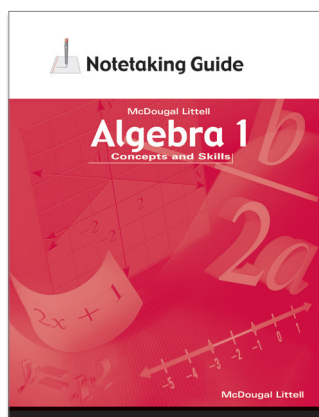
@HomeTutor CD-ROM

Helps students master skills and concepts through animated examples and instruction, self-scoring exercises, and personalized progress reports.



ExamView Assessment Suite CD-ROM

Enables you to create customizable tests and practice sheets that can be printed out and posted online or to your network.



Notetaking Support

Notetaking Guide

Provides students with a framework for reading each lesson's key concepts and helps students prepare for tests with guidelines for recording the key concepts of each lesson.

Notetaking Guide Teacher's Edition

Provides pages with annotated answers that are useful for assessing student study skills and also provides valuable handouts for students who have been absent from class.

Notetaking Guide Transparencies

Demonstrates notetaking strategies as students take notes in their own guides. Found in Transparency Book for Algebra 2.

price list

Algebra 1: Concepts and Skills © 2010


Product	ISBN	Price
Texts		
Student Edition	978-0-547-00833-2	120.67
Teacher's Edition	978-0-547-01242-1	174.80
Student Edition with On Core Mathematics Algebra 1	978-0-547-76419-1	122.07
Teacher Edition with On Core Mathematics Algebra 1	978-0-547-76441-2	191.53
eEdition DVD-ROM	978-0-547-12393-6	96.53
eEdition Online 1-year	978-0-547-23948-4	30.20
Teacher Resources		
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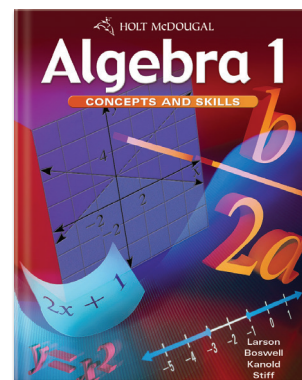
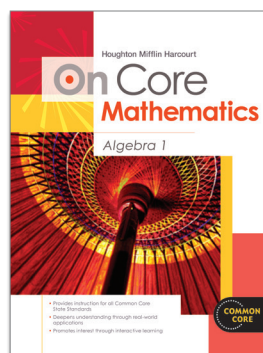
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Curiosity has its own reason for existing.”

—Albert Einstein