HMH


GO Math! Middle School
Grades 6-8 © 2018 Program Overview


## GO Math! Middle School

Grades 6-8 © 2018 Program Preview

## Next Generation Solution

## FOCUSED - COHERENT - RIGOROUS

- GO Math! ${ }^{\circledR}$ focuses strongly on your standards.
- GO Math! carefully connects learning within and across grades.
- GO Math! gives equal intensity to conceptual understanding, fluency, and application.


## EMPHASIS ON $21^{\text {ST }}$-CENTURY SKILLS

- This digital-first solution-built around the HMH Player ${ }^{\circledR}$-transcends the traditional approach of eBooks and online resources with an enhanced tablet-friendly experience for students, teachers, and parents.
- Digital course management tools offer teachers flexibility in planning, instruction, and assessment for in-class or on-the-go learning.
- Personalized and adaptive instruction is taken to the next level with the Personal Math Trainer ${ }^{\circledR}$ Powered by Knewton ${ }^{\text {™ }}$.


## A Truly Blended Approach to Instruction



## DIGITAL COMPONENTS

Digital Student Experience

- HMH Player app
- Interactive Student Edition
- Student Dashboard

Digital Teacher Experience


- Write-In Student Edition
- Teacher Edition
- Solutions Key
- Differentiated Instruction
- Planning and Pacing Guide
- HMH Player app
- Interactive Teacher Edition
- Teacher Dashboard



## Comprehensive Strategies and Resources for the Student

ESSENTIAL QUESTIONS at the beginning of each lesson engage students in the process of figuring out a mathematical concept.



Math On the Spot
(0) my.hrw.com

## MATH ON THE SPOT

tutorial videos are available for every lesson; students simply scan the QR code with a smartphone to watch.

## EXPLORE

ACTIVITIES at the beginning of each lesson in the Write-In Student Edition provide opportunities to interactively explore new concepts.

Using Tables to Compare Ratios
Anna's recipe for lemonade calls for 2 cups of lemonade concentrate and
3 cups of water. Bailey's recipe calls for 3 cups of lemonade concentrate and 3 cups of water. Bailey's recipe calls for 3 cups of lemonade concentrate and 5 cups of water.
 A In Anna's recipe, the ratio of concentrate to $w$
Use equivalent ratios to complete the table.



Concentrat
Water (c)

C. Find two columns, one in each table, in which the amount of water is the same. Circle these two columns.
D Whose recipe makes stronger lemonade? How do you know?
(E) Compare the ratios: $\frac{10}{15} \bigcirc \frac{9}{15} \quad \frac{2}{3} \bigcirc \frac{3}{5}$


Reflect
Analyze Relationships Suppose each person pours herself one cup of the lemonade she made. How much concentrate is in each person's cup? How do you know?



Comparing Ratios
 dried fruit. When Tonya made a batch of these bars, she used 6 cups of
chopped nuts and 9 cups of dried fruit. Did Tonya use the correct ratio of nuts to fruit?
STEP 1 Find the ratio of nuts to fruit in the recipe.


STEP 2 Find the ratio of nuts to fruit that Tonya used. 18 is a multiple Find the ratio of nuts to fruit that Tonya used.
$\frac{6}{9} \quad 6$ cups of nuts to 9 cups of fruit $\begin{aligned} & \text { of } 6 \text { and } 9 \text { ast so find } \\ & \text { equivalent ratios } \\ & \text { with } 18 \text { in the }\end{aligned}$ second term. that have the same $\frac{12}{18}=\frac{12}{18}$
nuts to fruit that was given in the recipe.
N
2. In the science club, there are 2 sixth-graders for every 3 seventh-grader.

At this year's science fair, there were 7 projects by sixth-graders for ojects by seventh-graders. Is the ratio of sixth-graders to xth-graders to projects by seventh-graders? Explain.

## Math Talk

Mathematical Processes
Explain how you compare two ratios to check if they
are equivalent.


REFLECT questions and MATH TALK are just two features out of many that provide continual opportunities for the student to reinforce the mathematical processes on a daily basis.

14. Justify Reasoning An online retailer sells two packages of protein bars.

| Package | 10-pack of 2.1 <br> ounce bars | 12-pack of 1.4 <br> ounce bars |
| :--- | :---: | :---: |
| Cost (\$) | 15.37 | 15.35 |

a. Which package has the better price per bar?

HIGHER-ORDER THINKING problems highlight mathematical practices and require students to explain, justify, and critique reasoning in a problem-solving setting.

## Unit 2 Performance Tasks

1. CAREERS IN MATH Bicycle Tour Operator Viktor is a bike tour operator and needs to replace two of his touring bikes. He orders two bikes from the sporting goods store for a total of \$2,000 and pays using his credit card. When the bill arrives, he reads the following information:

Balance: \$2,000
Annual interest rate: 14.9\%
PERFORMANCE TASKS provide students with the opportunity to apply their learning to solve real-world application problems.

## Getting Ready 306

## Estimation Strategies

GETTING READY (bridge to follow-on lessons) and GOING FURTHER (extension and application) lessons provide more Standards coverage aligned to the K-8 progression to Algebra.


Game 5-11


Game 123 140A

GAMES in each unit integrate hands-on collaborative activities that motivate students to explore "the math" and connect abstract concepts to real-world problems.

## An Engaging \& Interactive Approach to Learning

GO Math! delivers the next-generation Online Student Edition that works on all Internet-enabled devices, offers digital answer submission functionality, and contains point-of-use links to Math on the Spot tutorials, Animated Math Tutorials, Real-World Videos, and Personal Math Trainer.


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 concepts.


Scan with your smartphone to jump directly


ANIMATED MATH TUTORIALS
are short interactivities or simulations that drive home the key concept within each lesson and keep students engaged as they develop fluency.



REAL-WORLD VIDEOS engage
students with interesting and relevant applications of the mathematical content of each module.


ONLINE STUDENT EDITION allows students to write, take notes, and bookmark pages as well as access important links that reinforce concepts.


## Personalized and Adaptive Learning with Personal Math Trainer Powered by Knewton



Powered by Knewton ${ }^{\text {TM }}$


PERSONAL MATH TRAINER POWERED BY KNEWTON 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 allows students to:

- Access learning aids, including guided examples, step-by-step solutions, and video tutorials, to help develop understanding of concepts.

- Receive real-time feedback for every homework and practice problem answered.




## PERSONAL MATH TRAINER 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 learning paths for every student to help achieve 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 with targeted support such as Active, Standard Based, and Course Intervention Workflow.
- View information by individual student, whole class, standard, and test items-all with predictive analytics.


## GO Mobile! with Global DeliveryAnytime, Anywhere Access

## HMHPLAYER ${ }^{\circledR}$

## DIGITALSTUDENT EXPERIENCE

## HMH PLAYER: AN ALL-IN-ONE <br> CLASSROOM APPLICATION

This game-changing app for teachers and students:

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



## CLASSROOM COLLABORATION

Within HMH Player, students can collaborate in the classroom by messaging the teacher.

- Students see the content the teacher is moving through on their own device to easily follow along in the lesson.
- Students can "raise a hand" within the app to ask or answer questions.
- Teachers can provide activities that foster synergy among students and classes and send notifications and immediate feedback to the whole class or to individual students.


## ASSIGNMENTS

HMH Player offers a teacher-friendly assignment feature that enables teachers to select HMH lessons and Personal Math Trainer activities and assign the content to one or more students within a class.

- Start date, due date, assignment title, and notes are all that are required to create a lesson.
- Assignments include homework, in-class work, or any other application to track student progress against a specific lesson, assignment, or standard.



## TWO REPORTING VIEWS

The teacher has two reporting views in HMH Player: Assignments and Progress.

- The Assignment view provides the teacher with a streamlined "gradebook" style view showing assignments in each column and students in each row.
- The Export option allows teachers to choose "Selected Student" or "All Students" to view the entire class of individual assignment results with item analysis.


# GO Math! Mobile Convenience for $21^{\text {st_}}$-Century Teaching and Learning 

## FOR THE STUDENT

Access program content and resources 24/7, online and offline with HMH Player.

Use QR codes to gain instant access to Math on the Spot videos.

Learn and reinforce concepts with step-by-step interactive examples supported by video tutorials.

Check comprehension of new concepts and skills and get individualized support automatically with Personal Math Trainer.

## FOR THE TEACHER

Access a full suite of teaching resources when and where you need them.

Customize and present course materials with collaborative activities and integrated formative assessments.

Plan, present, and manage classes, assignments, and activities through the Digital Teacher Experience.

View professional development videos by program authors for instructional support for each module.

## Comprehensive Strategies and Resources for the Teacher

Print and digital resources provide teachers with substantial guidance and professional learning. The Teacher Edition supports instruction by explaining and implementing mathematical processes and detailing how to effectively incorporate components, such as digital resources, at point of use plus leveled questions for every example.

5E instructional design empowers teachers to deliver instruction with the focus, coherence, and rigor demanded by today's standards.




ARE YOU READY? formative diagnostic pieces help teachers determine if students need intensive or strategic intervention for the module's prerequisite skills.


LEARNING PROGRESSIONS give teachers a better sense of the scope of curriculum across and within grade levels.

## Plan and Manage Your Classroom Online

TEACHER DASHBOARD provides quick access to the Teacher Edition and Resources, Interactive Student Edition, Reports, Assignments, mySmartPlanner, and more. All student work and grades are synced with the Teacher Dashboard.


## The Support You Need— When You Need It

Our comprehensive Professional Learning solutions for leaders, teachers, and families are data- and evidence-driven, mapped to your goals, centered around your students, and delivered by master educators. These tailored, flexible solutions were designed with one goal in mind: to help you more effectively prepare students for college and careers.

## Start Strong, Finish Stronger

A Getting Started with GO Math! course will orient you to the program materials and technology, examine the instructional routines, help you support differentiation, and provide effective whole and small group instruction.


You'll find this course in your Teacher Dashboard. Additionally, program-embedded Professional Development Videos, featuring program authors Dr. Juli Dixon and Dr. Matt Larson, model successful teaching practices and strategies in actual classroom settings.

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


## Build Capacity, Ensure Success with In-Classroom Support

Our Professional Learning will provide you with deeper knowledge of Mathematical standards, in-class support to facilitate instructional strategies and routines, and confidence to teach mathematics.

You'll get even more personalized support with our Team and Individual Coaching.
We'll be there to help you plan your lessons and model effective mathematics instruction.

- Deliver focused, coherent, and rigorous lessons
- Connect learning across the grade levels
- Provide equal intensity to conceptual understanding, fluency, and application


Our deep bench of thought leaders from Math Solutions ${ }^{\circledR}$ make innovative approaches to teaching mathematics a reality. Created by renowned mathematics educator Marilyn Burns, Math Solutions Professional Learning services help teachers focus on developing mathematical processes, differentiation, and using formative assessments to impact student learning.

Need additional support with technology? Our technical services team can help you plan, prepare, implement, and optimize your technology so you can get the most out of GO Math! digital tools. We can help enhance your technology with learning management system interoperability, rostering, and single sign on within your environment.

## For more information regarding HMH Professional Services, visit hmhco.com/professionalservices



## To complete your Middle School Curriculum, HMH provides three pathways:

## REGULAR

Grade 6
Grade 7
Grade 8

## ACCELERATED

Grade 6 Accelerated 7

Algebra 1: Analyze, Connect, Explore

## ADVANCED

Advanced 1
Advanced 2
Algebra 1: Analyze, Connect, Explore

Contact your $\mathrm{HMH}^{\circledR}$ Account Executive for more information about GO Math! Middle School Grades 6-8 © 2018 and to preview resources as they are available.

