It’s Official!

GO Math! is built for the COMMON CORE

Program Overview
Grades K–6
Table of Contents

Common Core Instruction ...........6
Instructional Support ...............8
Digital Path ................................10
Differentiated Instruction ..........12
Response to Intervention ..........14
Assessment ..............................16

Here’s a glimpse of what you will find in

• It’s New
• It’s Common Core
• It’s Built for Student Success
It’s New! It’s COMMON CORE

NEW Write-In Student Edition

Children record, represent, solve, and explain as they discover and build new understandings, right in their student books. Every lesson is four pages to ensure students are learning mathematics at a deeper level of understanding.

NEW Color Coding for Critical Areas

NEW Common Core State Standards Practice Book

NEW MathBoards

NEW Ways to Engage

Since GO Math! was built for the Common Core, all the Mathematical Practices are completely embedded in the lessons.
Teacher Materials

Teacher Edition
• Separate Chapter Books
• Organized and flexible
• Color-coded by Critical Area

Planning Guide
• Chapter Planners
• Common Core Correlations
• Additional planning resources for end of year

Classroom Manipulatives Kit
• Enough materials for 30 students
• Pre-packaged in handy zipper bags
• Available for each grade, K–6

Student Materials

Student Edition
• Write-In student interactive text
• Organized around the Common Core State Standards Critical Areas
• Special color-coding for Critical Areas
• Mathematical Practices embedded in the lessons

MathBoard
• Write-on/wipe-off, available for each grade, K–6
• Helps students organize their thinking
• Enables students to engage in the Mathematical Practices
• Supports the emphasis on Math Talk

Standards Practice Book
• Full page of practice for each lesson
• Full page of spiral review every day
• Getting Ready lessons for the following grade level
• Multi-day projects for each Critical Area

To view all of the Chapter Teacher Editions, go to hmheducation.com/gomath

Common Core Mathematical Practices

Common Core Mathematical Practices

Common Core Mathematical Practices
**Instructional Support**

**Grab-and-Go!® Differentiated Centers Kit**
- Ready-made activities, games, and literature for each lesson
- Available for each grade, K–6
- Actual size when open: 42” x 25”

**Differentiated Instruction**

Assessment Guide includes:
- Prerequisite Skills Inventory
- Beginning–of-Year, Middle-of-Year, and End-of-Year Benchmark Tests
- Diagnostic Interview Assessments
- Chapter Tests in Multiple Choice and Mixed Response Formats
- Performance Assessments
- Getting Ready for Next Year Tests
- Individual and Class Record Forms

**DiagnoStic Formative Summative**
To preview the technology offerings, go to hmheeducation.com/gomath

Digital Path

1 PLAN

- eTeacher Edition
  - Access all Teacher Edition pages at school or home

- Chapter ePlanner
  - Daily Digital Path links to all online resources for each lesson
  - Create customized planning calendar
  - View and assign online activities and lessons to students

- Professional Development Podcasts
  - Download podcasts with strategies for teaching concepts and skills
  - View on hand-held device or computer

- Math Practices Videos
  - Download video podcasts with strategies for teaching math practices
  - View on hand-held device or computer

2 ENGAGE

- Interactive Whiteboard Lessons
  - Provides rich and engaging learning experiences
  - Encourages active participation throughout the lessons
  - IWB lesson for every GO Math! lesson

- iTools
  - Solve problems with interactive digital manipulatives
  - Model and explore math lesson concepts

- Real World Videos
  - Show motivating videos of real-world settings to introduce lessons in Grades 3–6

- CARMEN SAN DIEGO®
  - Math Detective Activities for Grades 3–6
    - Engaging activities
    - Solve math problems with real-world themes

3 TEACH

- eStudent Edition
  - Includes all Student Edition pages for student access at school or home
  - Provides audio reinforcement for each lesson
  - Features point-of-use links to Animated Math Models
  - Also available on tablets

- Animated Math Models
  - Curious George® (K–2) and Carmen Sandiego® (3–6) characters introduce lesson activities with audio and animation
  - Concepts are modeled and reinforced with feedback

- Mega Math
  - Provides additional lesson practice with engaging activities that include audio and animation

4 ASSESS

- Online Assessment System
  - Receive instant results, including prescriptions for intervention
  - Includes a variety of reports to track student progress
  - Create customized tests

- Soar to Success Math
  - Diagnose and prescribe interactive intervention lessons for all RtI Tiers

- Tier 1
  - On-Level Intervention

- Tier 2
  - Strategic Intervention

- Tier 3
  - Intensive Intervention

21st Century

GO Math! Digital Path provides the opportunity for lifelong learning skills for students in the 21st century by developing:

- Information and communication skills
- Higher-order thinking skills
- Problem-solving skills
- Independent learners
- Real-world connections
Differentiated Instruction

No student will feel left out with GO Math!

Differentiated Instruction Activities

### Strategy: Draw

**Materials:**
- Paper, color pencils

- Students can draw pictures to reinforce vocabulary.
- Read about this sentence: “Each of the 3 students has 2 costumes.” Have students draw pictures to show what this means. (Make sure students understand that a costume is a special set of clothes.)

- Point to the first figure in a drawing. How many costumes does this student have? 2
- How do you know he has 2 costumes? Accept all reasonable responses that describe the drawing.

**Materials:**
- Digit Cards (see eTeacher Resources)

- Have students shuffle a set of cards (1–9) and place them facedown in a pile.
- One partner selects a card, keeping it hidden, and then mentally finds the product of that number and 2 and says the product aloud.

- The other partner names the number that was multiplied by 2 to get the given product.

- Partners reverse roles and repeat the activity until all the cards have been used.

- Then have partners repeat the activity with 4 as the factor.

---

### Enrich Book

- Enrich Book

- Reteach Book

- ELL Activity Guide

### Reteach Book

- Reteach Book

- ELL Activity Guide

---

### ELL Activity Guide

- ELL Activity Guide

---

### Differentiated Centers Kit

The kit provides literature, games, and activities for use every day.

### Reaching All Students

Practical, point-of-use support is built into each lesson so all learners—early finishers, gifted and talented students, and those needing extra support or intervention—can all achieve success.
Response to Intervention

Three Options for Intervention for Each Tier

1. Print support
2. Focused hands-on activities
3. Comprehensive online intervention solutions

Comprehensive Support for RtI Improves Learning

**Draw It!**

Objective: Draw a fast array to model and find the answer to basic multiplication facts.

Materials: Mathboards

Draw a fast array for \(5 \times 8\) on the board.

Point out that in a fast array you draw only one row and one column.

Ask:
- How could you use a fast array to find \(5 \times 8\)?

Possible answer: I know that \(2 \times 8 = 16\), so I can double 16 and add 1 more 8.

Write “40” in the box. Have students think of two basic facts they do not know and draw fast arrays to find the products.

Have volunteers share their fast arrays and methods for solving the problems with the class.

**Write It!**

Objective: Write multiplication word problems to match given models.

Have students write a word problem that can be solved by using each of the models shown. Provide sentence frames as needed. Draw these models on the board. Have a volunteer count aloud how many jumps there are. 3

Then have another student count how many marks on the number line are included within each jump. Explain that 3 and 4 are the factors. As needed, guide students to understand that 3 groups of 4 are equal to 12.

Use counters to provide support for individual students or small groups as needed. Guide them to count the rows of counters (2) and how many counters there are in each row (6) to get the factors for the multiplication problem.

Have volunteers share their problems and discuss the multiplication situations they wrote.
### Diagnostic

#### Show What You Know

- Identifies students’ level of preparation for the chapter content
- Determines if students need intensive or strategic intervention
- Special intervention and challenge resources link to the "Show What You Know Diagnostic Assessment" chart

#### Show What You Know • Diagnostic Assessment

Use to determine if students need intervention for the chapter’s prerequisite skills.

<table>
<thead>
<tr>
<th>Skill</th>
<th>Mixed More Than</th>
<th>Intervene With</th>
<th>Soar to Success Math</th>
</tr>
</thead>
<tbody>
<tr>
<td>Doubles and Doubles Plus One</td>
<td>0</td>
<td>Intensive Intervention Skill &amp; Intensive Intervention User Guide Activity 4</td>
<td>Warm-Up: 10.19</td>
</tr>
<tr>
<td>Equal Groups</td>
<td>0</td>
<td>Strategic Intervention Skill B</td>
<td>Warm-Up: 12.18</td>
</tr>
</tbody>
</table>

For Diagnostic Interview Tasks for Show What You Know skills, see Assessment Guide.

### Formative

#### Quick Check

If a student misses Exercises 3 and 8

Then

- **RtI** Differentiate Instruction with
  - RtI Tier 1 Activity, p. 133B
  - Reteach 4.1
  - Soar to Success Math 12.21, 12.25

#### Mid-Chapter Checkpoint

**LESSONS 4.1 TO 4.5**

- Monitor students’ understanding in every lesson
- Adjust instruction accordingly

#### Data-Driven Decision Making

Based on the results of the Mid-Chapter Checkpoint, use the following resources to strengthen individual or whole class instruction.

<table>
<thead>
<tr>
<th>Item</th>
<th>Lesson</th>
<th>*CCSS</th>
<th>Common Error</th>
<th>Intervene With</th>
<th>Soar to Success Math</th>
</tr>
</thead>
<tbody>
<tr>
<td>3–4</td>
<td>4.4</td>
<td>CC.3.OA.5</td>
<td>May not understand how to find a product by breaking apart an array</td>
<td>R—4.4; TE—p. 145B</td>
<td>12.50</td>
</tr>
<tr>
<td>5–13</td>
<td>4.1–4.3, 4.5</td>
<td>CC.3.OA.3, CC.3.OA.7</td>
<td>May find an incorrect product when multiplying</td>
<td>R—4.1–4.3, 4.5; TE—pp. 133B, 137B; 141B; 148B</td>
<td>12.21, 12.22, 12.23, 12.24, 12.26, 12.28, 12.30</td>
</tr>
</tbody>
</table>

*CCSS—Common Core State Standards

Key: R—Reteach Book; TE—RtI Activities

131 Chapter 4

153 Chapter 4
Assessment

Chapter 4 Review/Test

Summative Assessment

Use the Chapter Review/Test to assess students’ progress in Chapter 4.
You may want to review with students the essential question for the chapter.

Chapter Essential Question

What strategies can you use to multiply?
Ask the following questions to focus students’ thinking:
• How are patterns and multiplication related?
• How can multiplication properties help you find products?
• What types of problems can be solved by using multiplication?

Data-Driven Decision Making

Based on the results of the Chapter Review/Test, use the following resources to review skills.

<table>
<thead>
<tr>
<th>Item</th>
<th>Lesson</th>
<th><strong>CCSS</strong></th>
<th>Common Error</th>
<th>Intervene With</th>
<th>Soar to Success Math</th>
</tr>
</thead>
<tbody>
<tr>
<td>3, 4</td>
<td>4, 4, 6</td>
<td>CC.3.OA.4</td>
<td>May use the wrong property</td>
<td>R—4.6, 4.5; TE—p. 145B, 155B</td>
<td>12.40, 12.50</td>
</tr>
<tr>
<td>19, 26</td>
<td>4.4</td>
<td>CC.3.OA.5</td>
<td>May incorrectly break apart a factor</td>
<td>R—4.4, TE—p. 146B</td>
<td>12.50</td>
</tr>
<tr>
<td>22, 27</td>
<td>4.8</td>
<td>CC.3.OA.7</td>
<td>May multiply the wrong numbers</td>
<td>R—4.8, TE—p. 163B</td>
<td>12.29</td>
</tr>
</tbody>
</table>

Program Components

Core Student Materials
• Student Edition Package (Student Edition and Standards Practice Book)
• eStudent Edition
• MathBoard

Core Teaching Materials
• Teacher Edition Collection with Planning Guide
• eTeacher Edition
• Assessment Guide
• Reteach Workbook
• Enrich Workbook
• Grab-and-Go! Differentiated Centers Kit
• Grab-and-Go! Manipulatives Kit
• Online Teacher Resource Center

Additional Teaching Resources
• Strategic Intervention Guide
• Intensive Intervention Kit
• ExamView® Common Core Test Generator CD-ROM

Online Teacher Resource Center
• Student Edition
• Standards Practice Book with Teacher Edition
• Teacher Edition Collection with ePlanner
• Concept Readers
• ELL Activity Guide
• Teacher Resource Book
• Reteach Workbook with Teacher Edition
• Enrich Workbook with Teacher Edition
• Lesson Transparencies
• Assessment Guide
• Grab-and-Go! Differentiated Centers Teacher Guide and Activities
• Professional Development Podcasts
• Math Practices Videos
• Interactive Whiteboard Lessons
• Tools
• Animated Math Models
• Carmen Sandiego® Math Detective Activities for Grades 3–6
• Real World Videos Grades 3–6
• Multilingual eGlossary
• Mega Math
• Soar to Success Math Intervention (Tiers 1, 2, and 3)
• Online Assessment
• Bilingual MathBoards
• Strategic Intervention Teacher Guide
• Intensive Intervention User Guide
• Intensive Intervention Skills Pack
• Intensive Intervention Teacher Guide
Go Digital

Preview all of our digital offerings online. Just follow these steps and see how interactive and engaging digital resources from Houghton Mifflin Harcourt can be!

1. Go to www-k6.thinkcentral.com and click Evaluators Click Here; click Register.

2. Enter the access word: gocommoncore

3. Click the check boxes next to Privacy Policy and Terms of Service. Enter your name and email address. Click Next.

4. Next to the name of your evaluation site, select a role (e.g., teacher) and then click Login.

5. Click View Resources.