



Reveal
MATH[®]

Discover digital resources that
will help reveal the full potential
in every student.



The *Reveal Math*® Digital Experience

Support for purposeful in-class and virtual learning

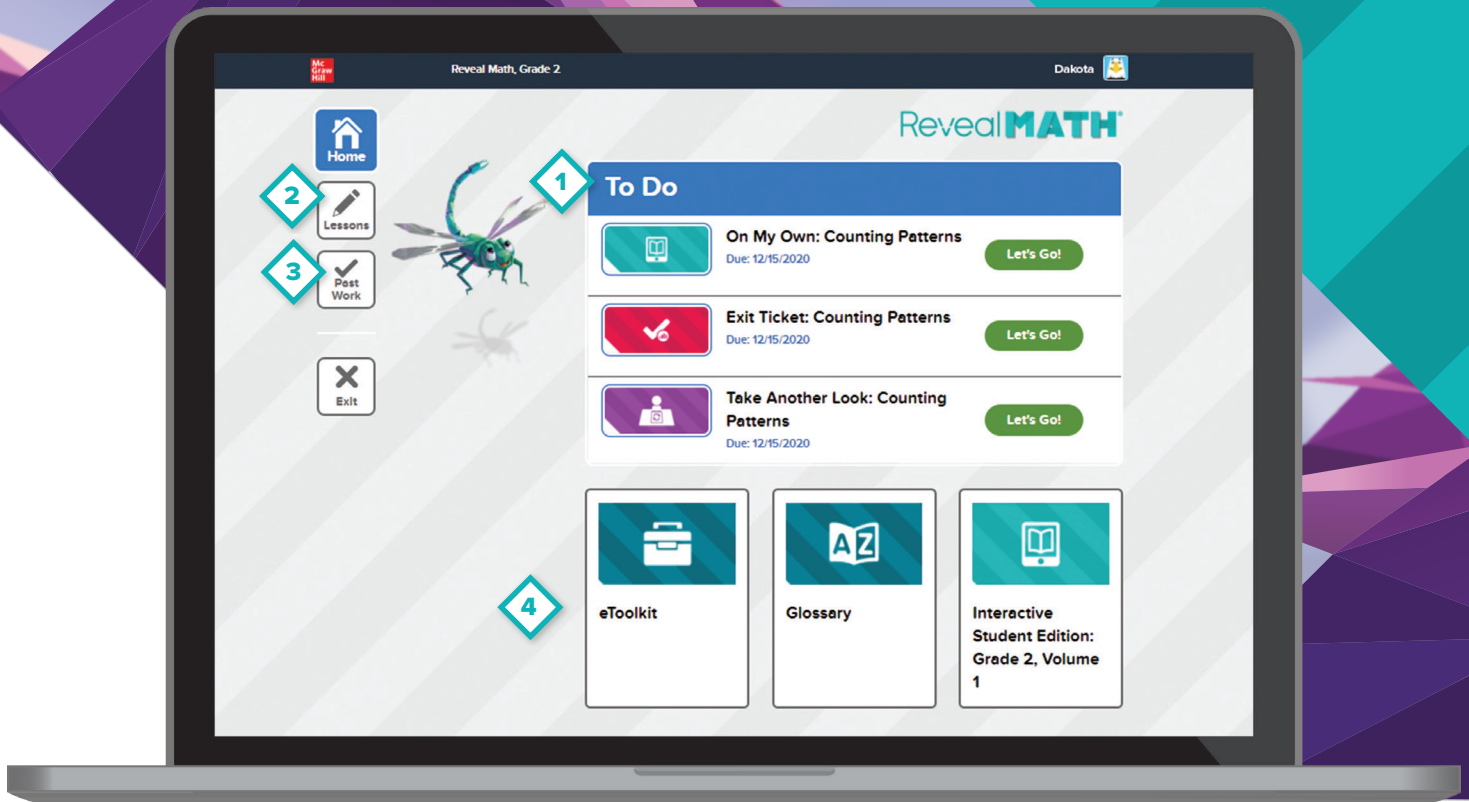
Reveal Math, an elementary math program, develops the problem solvers of tomorrow with a blend of purposeful print and digital resources. With integrated technology and plentiful opportunities for students to explore, collaborate, practice, and reflect, *Reveal Math* increases both student engagement and students' confidence in their math abilities.

For Students:

- Interface designed for elementary students
- Fully interactive student edition
- Animations, videos, and interactive problems
- Digital games designed for purposeful practice
- Instructional mini-lessons
- Rich exploratory STEM adventures
- Highly visual and dynamic *Web Sketchpad*® activities
- Interactive question types, like drag-and-drop, open response, and multi-select

For Teachers:

- Flexible implementation options, offering two different instructional strategies to develop the math within every lesson
- Ready-made, interactive classroom presentations
- Ability to integrate resources, including documents, presentations, Google Classroom resources, website hyperlinks, and more
- Integrated intensive support, including rich differentiation and targeted intervention lessons
- Assignable homework and assessments with in-the-moment performance data and autoscoring
- Actionable reports to help analyze student data
- Integrated professional development modules and author videos



Student Dashboard

Designed with our learners in mind

The Student Dashboard is designed with our young learners in mind—allowing them to access all of the most important learning tools with ease.

- 1 Open scheduled work or assessments from the To-Do List
- 2 View specific lesson resources throughout the course
- 3 Review previously completed work and reference students' scores
- 4 Access the eToolkit, Glossary, and Interactive Student Editions

Active Student Tools to Support Daily Learning

Interactive Student Edition

The **Interactive Student Edition** allows students to follow along and interact with the student edition as they would in print.

If students can make notes or answer a question in print, they can digitally as well. Slide numbers align with the print page numbers to allow for easy wayfinding.

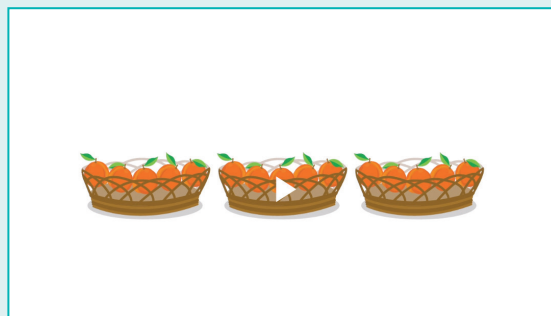
Teachers can assign practice pages in the Interactive Student Edition for students to complete independently.

The screenshot displays the Interactive Student Edition interface. On the left, a slide titled "On My Own" shows a math problem: "Complete exercises 1 through 9. 1. Fill in the blanks. How many?" Below the text are three bunches of bananas. At the bottom, there is a text input field with "3" and "4" separated by "equal groups of", with green checkmarks indicating correct answers. On the right, a smaller window shows a student response to a similar problem. The problem asks for the number of blue blocks used by Finn to build 3 houses, each using 8 blue blocks. The student has drawn three houses, each with 8 blocks, and written the equation $8 \times 3 = 24$. The student's answer is "Finn will use 24 blocks because 8 times 3 equals 24." The interface includes navigation buttons like "Start Over" and "Check".

At Home Support

Math Replay Videos

Math Replay videos align with the lesson presentation for the day, providing a one to two-minute overview of the lesson concept that students and parents can use as a reference while completing independent work.



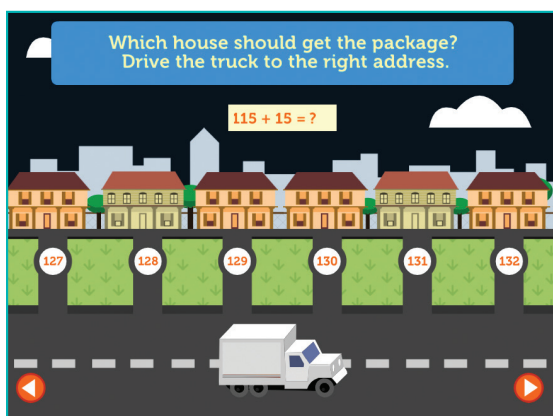
Additional Practice

Interactive Additional Practice

Aligned, extra practice to daily lesson content is included with embedded learning supports.

Spiral Review

Daily practice on major work of each grade level helps prep students for end-of-year assessment.



Fluency Practice

Practice at the end of each unit addresses the fluency expectations for each grade level.

eToolkit

Students can access the eToolkit at any time to support modeling and problem-solving using virtual manipulatives. Students will have access to the following manipulatives:

- Counters
- Base-Ten Blocks
- Array Builder
- Fraction Model
- Bucket Balance
- Geometry Sketch
- Money
- Fact Triangles
- Number Line
- And more!


Question 5

Choose the best explanation.
Which explanation tells how to use a number line to round 137 to the nearest ten?

- ☐ A) Make a number line from 130 to 140. Plot 137. It has 3 tens. Round to 130.
- ☐ B) Make a number line from 100 to 200. Plot 137. It has 7 ones. Round to 200.
- ☐ C) Make a number line from 100 to 200. Plot 137. It is to the left of 150. Round to 100.
- ☐ D) Make a number line from 130 to 140. Plot 137. It is to the right of 135. Round up to 140.

 Need help with this question?

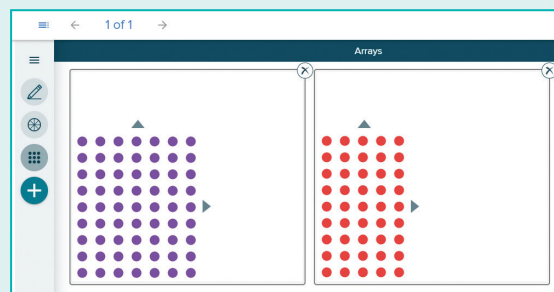
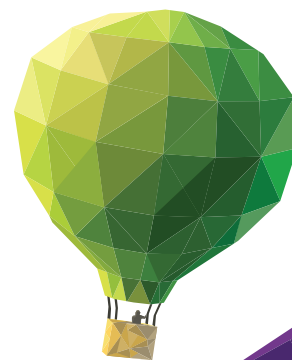
 Get a Hint

 See an Example

 View: "Glossary"

Digital Games

Forty to sixty extra problems in an engaging, game-like environment help build proficiency in the major content of each unit.



Engaging, Differentiated Activities

Reveal Math includes a variety of interactive differentiation options that tailor differentiation time to specific objectives, such as reinforcing understanding, building proficiency, or extending thinking.

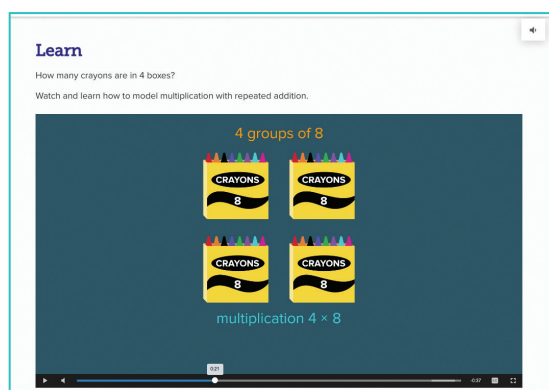
Reinforce Understanding

Teachers can easily assign a Take Another Look mini-lesson for students to complete during independent work time. Each student is supported with a three-part, gradual release activity that mitigates distraction and curbs potential frustration.

Part One:

Model Concept

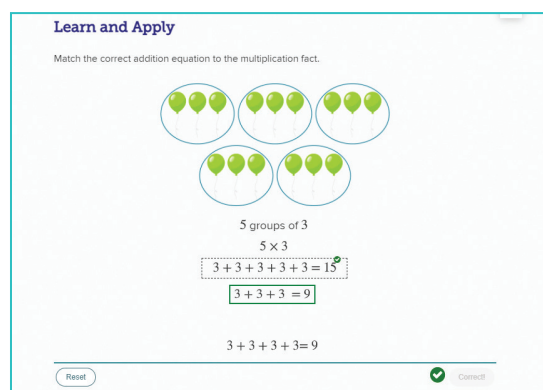
A two- to three-minute video or animation introduces and models the skill or concept using essential math vocabulary.



Part Two:

Interactive Practice

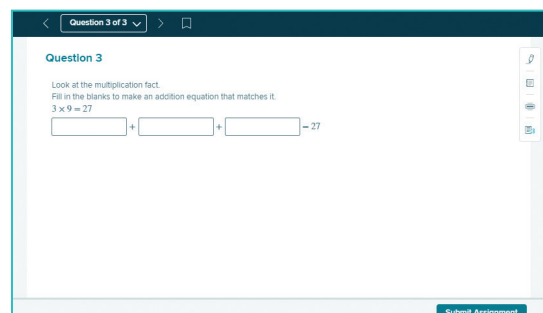
A series of engaging activities provide students immediate feedback and encourage confidence through scaffolded repetition.



Part Three:

Data Check

A quick three-to-five question assessment checks student understanding and provides teachers with data to inform instruction.

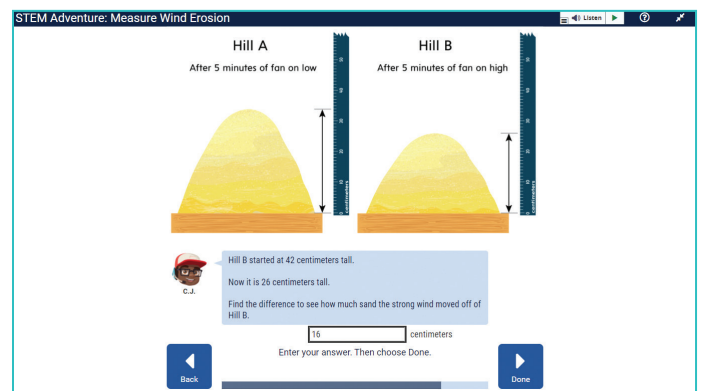
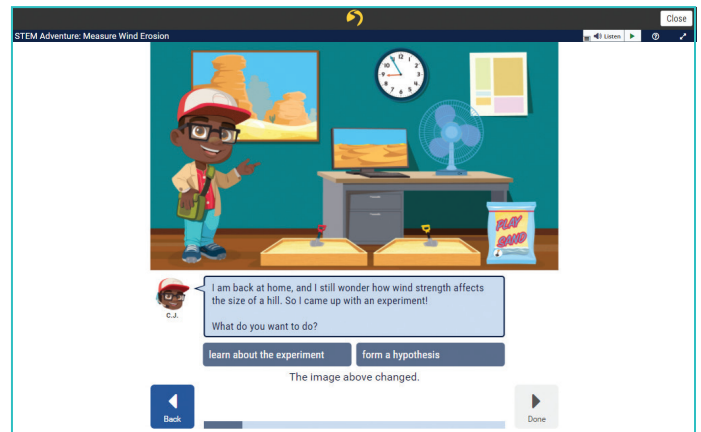


Extend Thinking

STEM Adventure

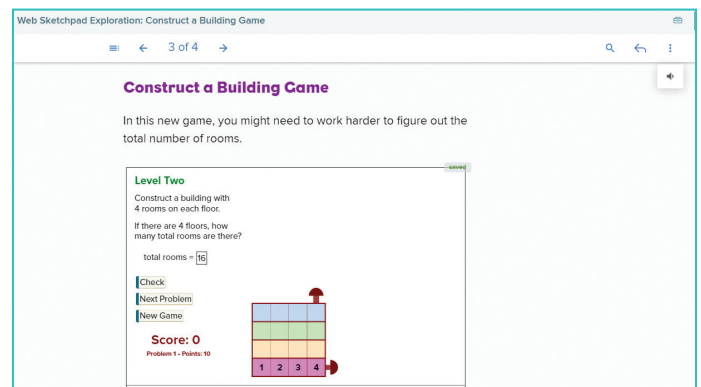
STEM Adventures are engaging application-based learning activities where students work alongside the STEM Career Kids to explore science and engineer concepts, conduct experiments, and apply the mathematics they have learned to collect and analyze data.

Students make and test hypotheses throughout the process. The activity progresses based on their decisions and can be played multiple times with different outcomes.



Websketch Explorations

Websketch Explorations are highly visual and engaging activities that demonstrate math concepts in action. Students engage with a concept through an open-ended environment and exploratory modeling.



Practical Tools for Planning and Teaching

Teacher Dashboard

Teachers can access digital classroom resources and tools through the Teacher Dashboard.

Browse the Course Navigation Menu to go directly to a unit or lesson.

The screenshot shows the Reveal Math Teacher Dashboard for Grade 3. On the left is a navigation menu with links: My Programs, Dashboard, Course, Gradebook, Calendar, Assignments (highlighted with a red '1'), Roster, Reports, and Assessments. The main content area is titled 'Grade 3' and features a large banner for 'Reveal Math Grade 3' with a colorful geometric background. Below the banner is a search bar labeled 'Search for Resources' and a section titled 'Where do you want to go?' with a button 'Browse Your Course'. Below this is a 'Calendar' section showing 'Friday, May 15, 2020' with three tasks: 'On My Own: Understand Equal Groups' (Due: 05/18/2020), 'Math Replay: Understand Equal Groups' (Due: 05/18/2020), and 'Lesson Check: Understand Equal Groups' (Due: 05/20/2020). To the right of the calendar is an 'eBook Options' section with six tiles for 'Reveal MATH' and 'Revela las MATEMÁTICAS' in both English and Spanish, including Teacher and Student editions for Volumes 1 and 2.

eBook shortcuts for the Teacher Edition and Student Editions are available on the dashboard.

The menu provides access to:

- My Programs
- Dashboard
- Course View
- Table of Contents
- Gradebook
- Calendar
- Assignments
- Roster
- Reports
- Assessments

Unit and Lesson Resource Pages

Unit and lesson components are organized into landing pages for point-of-use access. Teachers can easily plan and prepare units and lessons using the simple layout organization that aligns with their print Teacher Edition.

Launch/rearrange lesson presentations.

Add the lesson to your calendar for easy access.

Assign activities or assessments to a group, individual, or whole class.

Download all printable resources for the lesson at once using Downloadable materials or at point of use.

Unit 2: Use Place Value to Fluently Add and Subtract within 1,000 / **Lesson 2-1: Represent 4-Digit Numbers**

Preview Student Page Launch Presentation Edit

LESSON 2-1

Represent 4-Digit Numbers

Lesson Resources

- Interactive Student Edition: Represent 4-Digit Numbers**
Description: This lesson supports the learning of representing 4-digit numbers in expanded form, word form, and standard form using an understanding of place value.
Visible to Students eBook Assign Add to presentation
- Print Teacher Edition: Represent 4-Digit Numbers**
Description: This resource is a digital version of the print teacher edition.
Teacher Only eBook Assign Add to presentation
- Downloadable Lesson Materials: Represent 4-Digit Numbers**
Description: This resource provides quick and easy access to printable materials and their answers for "Represent 4-Digit Numbers."
Teacher Only Zip Assign Add to presentation

Number Routine

- Number Routine: Find a Pattern, Make a Rule**
Description: This teacher presentation provides a pattern rule to help students build fluency with pattern rule and apply the rule to a new problem.
Learning Resource Assign Add to presentation

Launch

- Be Curious: Represent 4-Digit Numbers**
Description: This teacher presentation guides students through the Notice and Wonder to explore using 4-digit numbers to represent large quantities.
Learning Resource Assign Add to presentation

Explore and Develop

Practice and Reflect

- On My Own: Represent 4-Digit Numbers**
Description: This resource is an interactive digital version of the student edition.
eBook Assign Add to presentation
- Math Replay: Represent 4-Digit Numbers**
Description: This video provides teacher, students, and guardians with a review of 4-digit numbers in expanded form, word form, and standard form using an understanding of place value.
Visible to Students Video Assign Add to presentation
- Learning Targets: Represent 4-Digit Numbers**
Description: This teacher presentation reflects on the learning targets of the lesson.
Learning Resource Assign Add to presentation

Assess

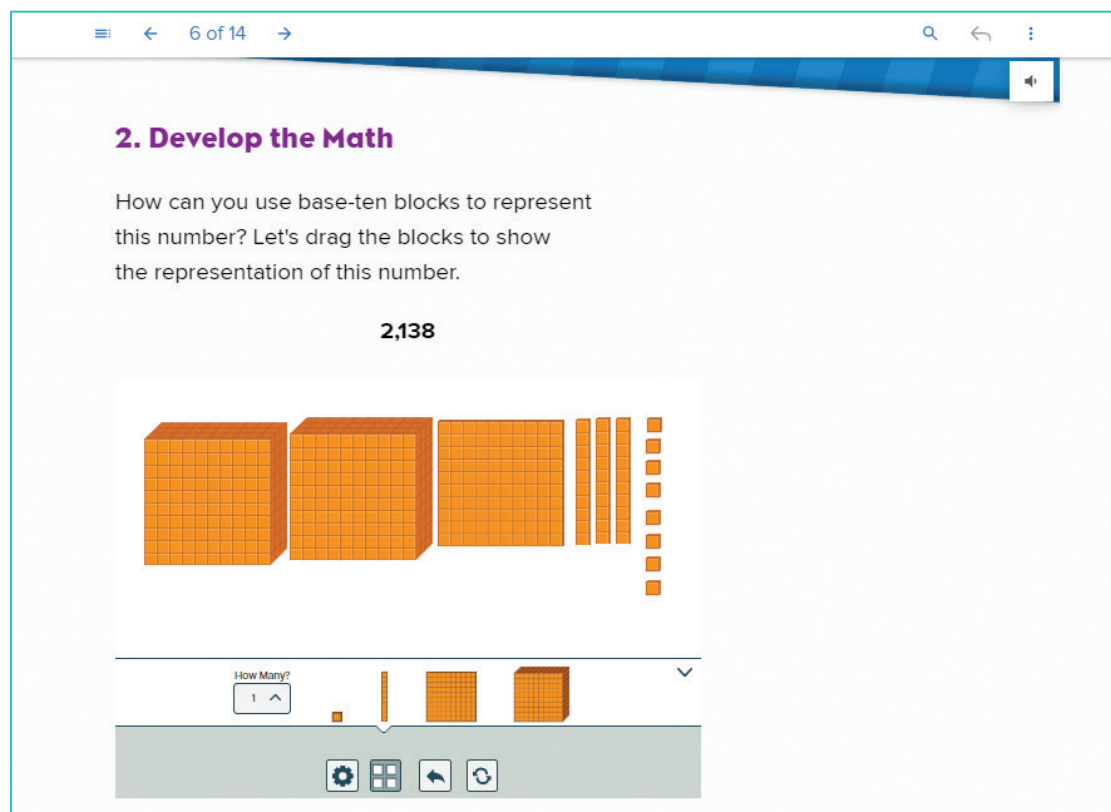
- Exit Ticket: Represent 4-Digit Numbers**
Description: This digital assessment evaluates student understanding 4-digit numbers in expanded form, word form, and standard form using an understanding of place value.
Assessment Assign Add to presentation
- Exit Ticket: Represent 4-Digit Numbers**
Description: This digital assessment evaluates student understanding 4-digit numbers in expanded form, word form, and standard form using an understanding of place value.
PDF Assign Add to presentation

Instructional Supports

Along with print and PDF resources, *Reveal Math* integrates purposeful digital resources that enrich both instruction and the classroom experience.

Daily Lesson Presentations

Reveal Math provides a number of lesson presentation resources to support daily instruction. Presentations include videos, gifs, animations, and interactive tools to enhance the modeling and invite students to engage in the math.



Virtual Manipulatives allow for interactive digital modeling and invite students to participate.

Professional Development

Reveal Math teachers have access to a comprehensive set of online professional learning resources to support a successful initial implementation and continued learning throughout the year. These self-paced, digital resources are available on-demand, 24 hours a day, 7 days a week in the Digital Teacher Center for each grade.

Reveal Math Quick Start


Quick Start includes focused, concise videos and PDFs that support teachers in getting up to speed quickly with the *Reveal Math* resources and curriculum.

Digital Walkthrough

Targeted videos guide teachers and students on how to navigate the *Reveal Math* digital platform and locate online resources.

Expert Insights Videos

At the start of each unit, *Reveal Math* authors and experts share an overview of the concepts students will learn in the unit, along with teaching tips and insights about how to implement the lesson.



Expert Insights: Numbers to 5

Description: This professional learning video features Reveal Math author, Susie Katt, explaining what students will learn during this unit, sharing insights to help you prepare to teach about place value, and offering tips for supporting students' success.

Teacher Only Video

Location: Unit 2: Numbers to 5

Workshop Modules

Curated, video-based learning modules present instructional topics that are key to *Reveal Math*. These modules can be used by teachers for self-paced learning or by district and school leaders as ready-to-teach packages to facilitate on-site or remote professional learning workshops.

Instructional Videos with *Reveal Math* Authors and Experts

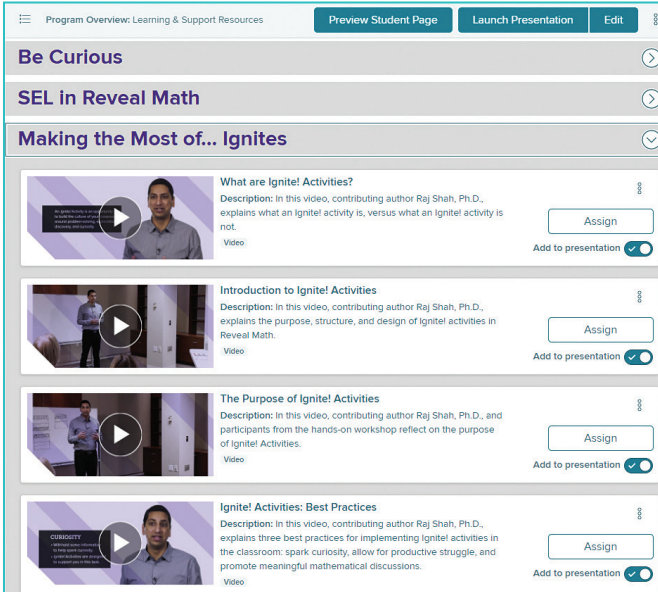
Annie Fetter: Be Curious Sense-Making Routines

John SanGiovanni: Number Routines and Fluency

Linda Gojak: Guided and Activity-Based Exploration, Social Emotional Learning

Raj Shah: Ignite! Activities

Cheryl Tobey: Math Probes



Program Overview: Learning & Support Resources

Preview Student Page Launch Presentation Edit

Be Curious

SEL in Reveal Math

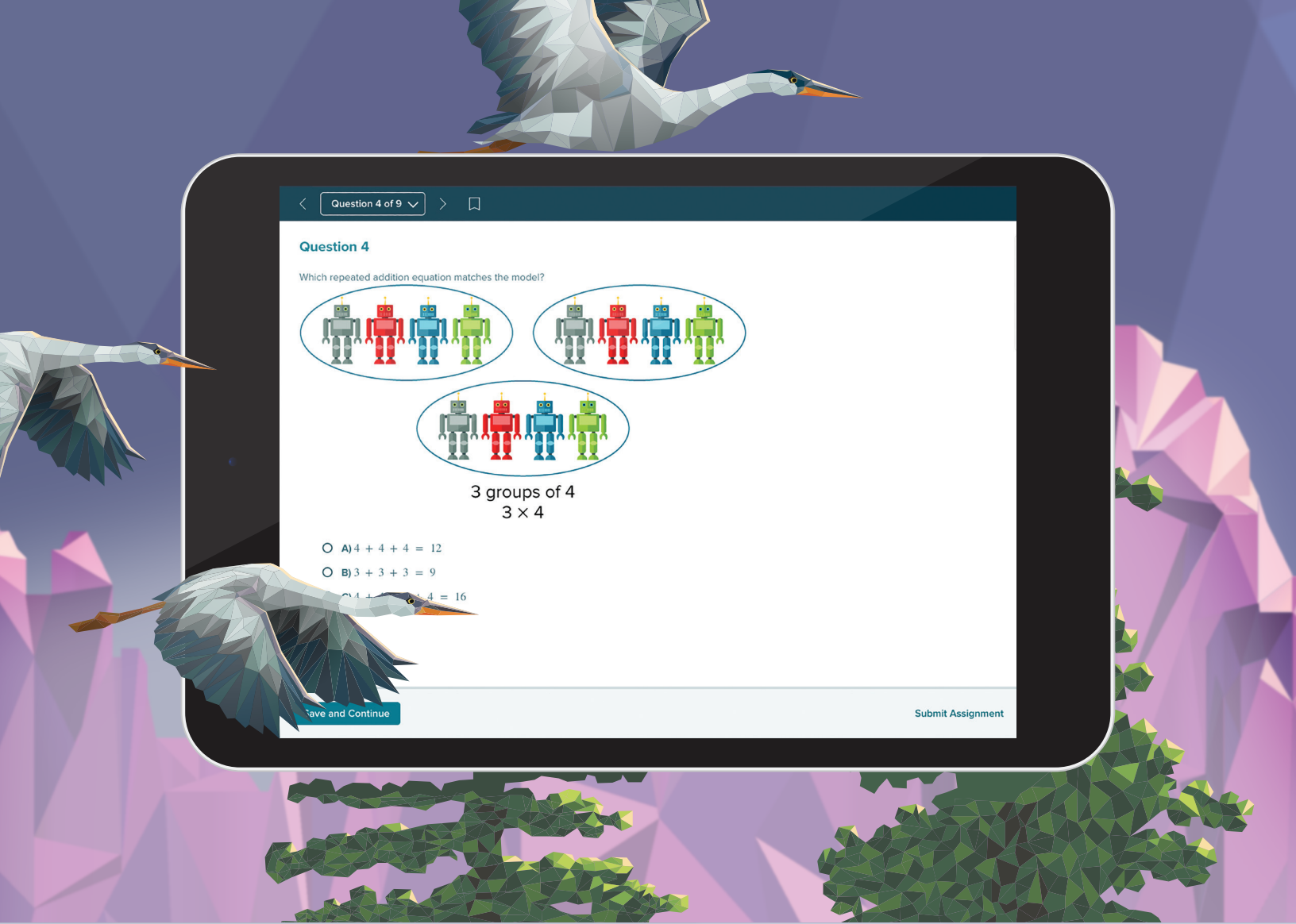
Making the Most of... Ignites

What are Ignite! Activities?
Description: In this video, contributing author Raj Shah, Ph.D., explains what an Ignite! activity is, versus what an Ignite! activity is not.
Video Assign Add to presentation

Introduction to Ignite! Activities
Description: In this video, contributing author Raj Shah, Ph.D., explains the purpose, structure, and design of Ignite! activities in Reveal Math.
Video Assign Add to presentation

The Purpose of Ignite! Activities
Description: In this video, contributing author Raj Shah, Ph.D., and participants from the hands-on workshop reflect on the purpose of Ignite! Activities.
Video Assign Add to presentation

Ignite! Activities: Best Practices
Description: In this video, contributing author Raj Shah, Ph.D., explains three best practices for implementing Ignite! activities in the classroom: spark curiosity, allow for productive struggle, and promote meaningful mathematical discussions.
Video Assign Add to presentation



Create a customizable assessment experience

Reveal Math assessments can be assigned and completed digitally or in print. In addition, interactive assessments can be created and assigned to a student, a group of students, or the whole class. Interactive authoring templates make creating digital assessments that align with standardized testing easy.

- Digital and printable versions are available to meet the needs of you and your students.
- Create and customize assessments to meet your classroom needs.
- Tailor assessment features by class or student.
- Randomize questions with premade answer keys.
- Utilize pre-populated standards-based question banks.

Guided Support

Materials

- Number cards (1–20)
- Index cards (3)

Begin the Activity

Have students form a circle or sit around a table. Write the symbols $+$, $-$, and $=$ on index cards. Distribute these cards to students, along with a set of 3 number cards that make up a fact family.

Conclude the Activity

Continue creating fact families with new sets of 3 related number cards as needed for students to build confidence and to show mastery of using related addition facts to subtract.

Questions

Draw 5 circles and 3 squares on the board.

- *What addition sentence does this picture show?* [$5 + 3 = 8$ or $3 + 5 = 8$]
- Cross out the 3 squares. *What subtraction sentence does this new picture show?* [$8 - 3 = 5$]
What subtraction sentence can we make if we change the picture to show 5 circles crossed out with 3 squares? [$8 - 5 = 3$]
- *How are these facts the same?* [Sample answer: The addition facts and the subtraction facts all use the same 3 numbers.]



Support understanding with targeted intervention

Intervention resources align with the unit, making item analysis easily actionable to correct misunderstanding and target gaps in learning.

Guided Support

Scripted, teacher-facilitated, small-group mini-lessons use concrete modeling and discussion to build conceptual understanding.

Skills Support

Skill-based practice sheets provide targeted practice of previously taught items.

Use a Related Addition Fact to Subtract

Key Concept

A related addition fact can help you subtract.

What is $11 - 6$?

Part	Part
	
Whole	
11	



I know $5 + 6 = 11$.
So, $11 - 6 = 5$.

Try It

Use the related addition fact to solve.

Write the difference.



1

Part	Part
	
Whole	
11	

$$9 + 2 = 11$$

$$11 - 2 = \underline{\quad}$$

2

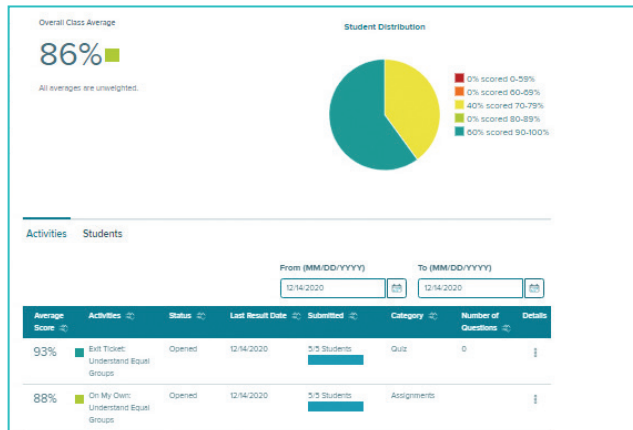
Part	Part
	
Whole	
12	

$$8 + 4 = 12$$

$$12 - 4 = \underline{\quad}$$

Reporting

Interactive performance reports provide immediate feedback to teachers, allowing them to make data-driven instructional decisions.



Activity Performance Report

Teachers can review useful data points for class activities, including item analysis by student and class, as well as overall classroom performance.

NGA Center/CCSSO | Common Core State Stand... | Mathematics (2010) | Grade 3

Show: Assessed All | Show Description

Standards	Description	Class Avg	Questions
CCSS.Math.Content.3.NF	Number and Operations-Fractions	82%	9
CCSS.Math.Content.3.NF.A	Develop understanding of fractions as numbers.	82%	9
CCSS.Math.Content.3.NF.A.3	Explain equivalence of fractions in special cases, and compare fractions by reasoning about their size.	82%	9
CCSS.Math.Content.3.NF.A.3.a	Understand two fractions as equivalent (equal) if they are the same size, or the same point on a number line.	100%	4
CCSS.Math.Content.3.NF.A.3.b	Recognize and generate simple equivalent fractions, (e.g., $\frac{1}{2} = \frac{2}{4}$, $\frac{4}{6} = \frac{2}{3}$). Explain why the fractions are equivalent, e.g., by using a visual fraction model.	80%	2

Standards Performance Report

Teachers can access information on class performance by standard, including a cumulative score by class and student, as well as the number of questions answered.

3rd Period - Gradebook

Student	Total Grade	Readiness Di ... Division 12/15/2020	On My Own: ... Groups 12/15/2020	Exit Ticket: U ... Groups 12/15/2020	Unit Assess ... Division 12/15/2020
Average	86% B	75%	88%	93%	88%
Dunne, Lacey	76% C	25 %	100 %	67 %	91 %
Hilton, Isla	87% B	100 %	80 %	100 %	82 %
Howard, Jay	82% B	63 %	60 %	100 %	91 %
Kirby, Bridget	92% A	100 %	100 %	100 %	86 %

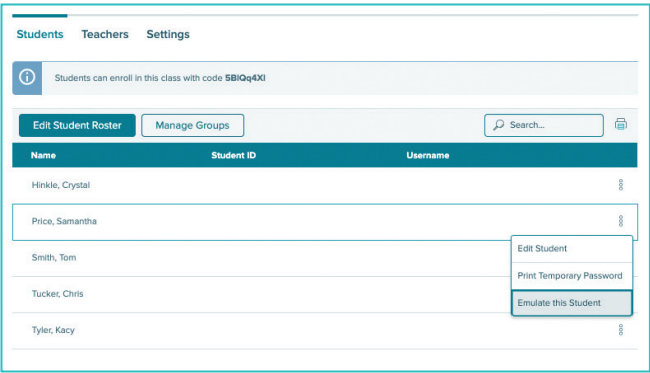
Discover and Track More Data with Gradebook

Within the digital gradebook, teachers can:

- Edit and manage classroom scores.
- View score sheets.
- Sort grades by group, student, grading period, and performance.
- Customize grading scales.
- Export data.

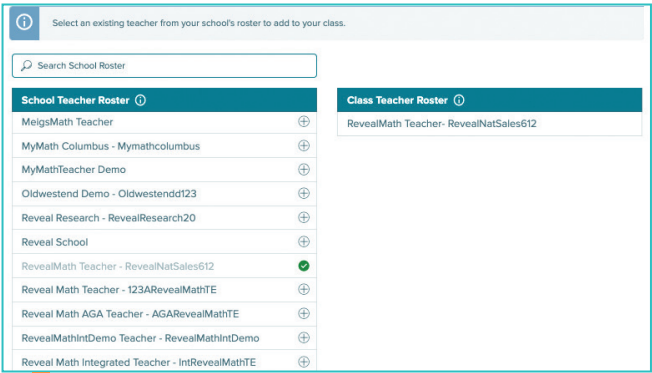
Class Management Tools

Class Management tools help maximize planning time.



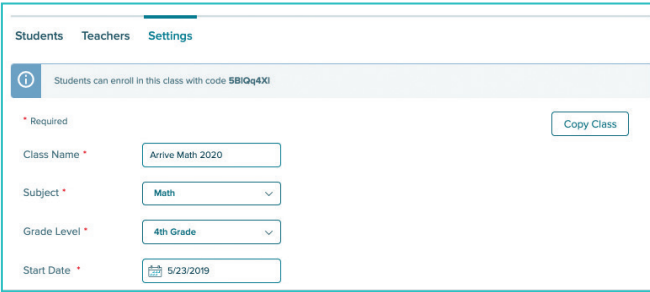
Preview Student Experience

Emulate Student allows teachers to view which resources students will see and have access to in their Student Digital Center. This helps ensure that assignments are set up correctly and will allow teachers to demonstrate usability and teach digital routines.



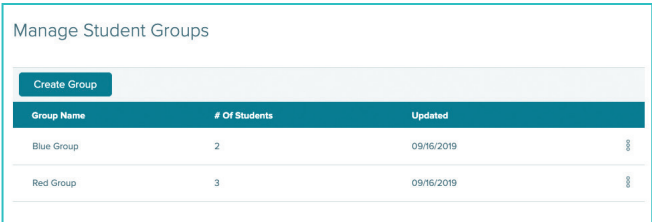
Share Your Class

Teachers can share class rosters, groupings, reports, assignments, lesson plans, and more with colleagues for the purpose of co-teaching, intervention, or instructional planning.



Copy Class

Copy functionality allows teachers to copy all course assignments and customizations to another class.



Group Your Students

Groups can be defined and used to differentiate assignments and assessments, and filter the teacher's gradebook.

Reveal**MATH**[®]

Explore the *Reveal Math* digital experience:
mheonline.com/RevealK5-Walkthrough