

Grades 6–8

# Digital Walkthrough

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West Virginia *Reveal*  
**MATH**<sup>®</sup>



**Mc  
Graw  
Hill**

# West Virginia Reveal Math®

## The Digital Experience

West Virginia Reveal Math develops the problem solvers of tomorrow with a blend of purposeful print and digital resources. Featuring integrated technology and plentiful opportunities for students to explore, collaborate, practice, and reflect, West Virginia Reveal Math increases both student engagement and confidence.

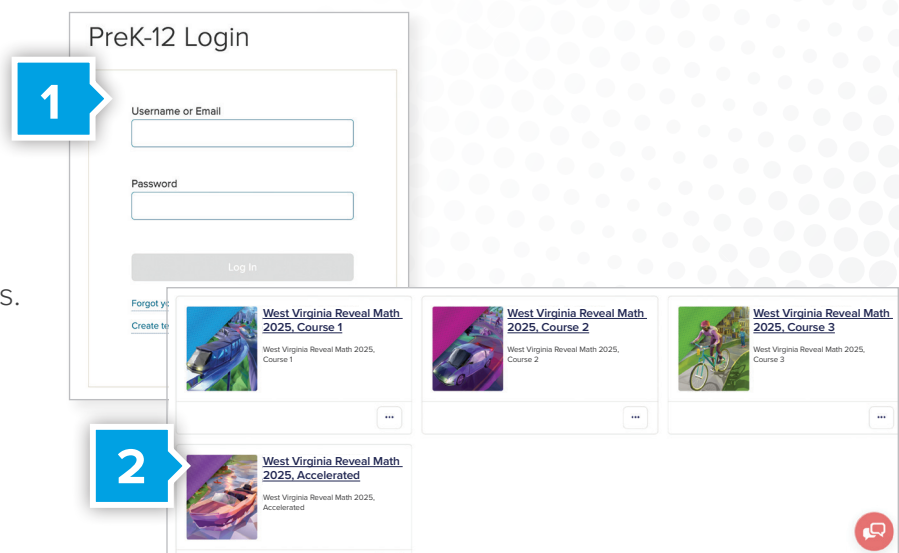
West Virginia Reveal Math currently integrates with the following Federated Standards: SAML 2.0 IDP, LTI 1.0, and Clever. Integration is possible with most learning management systems. Grade Passback and Assignment Sync are available with Canvas, Schoology, and Google Classroom; new integration required.

### Use this Quick Start to review the Digital Teacher Center

- Teacher Dashboard
- Program Resources and Professional Development
- Unit Resources
- Lesson Resources for Teacher and Students
- Differentiation Resources
- Class Management Tools
- Assessments
- Reporting

## Get Started

1. Visit [mheonline.com/westvirginia](https://mheonline.com/westvirginia) to register for a username and password.
2. Select desired grade-level class.



# Teacher Dashboard

Use the Teacher Dashboard as a central location to navigate the Digital Teacher Center:

The screenshot shows the 'West Virginia Reveal Math, Course 1' Teacher Dashboard. A side menu on the left (callout 1) contains icons for My Programs, Dashboard, Course, Calendar, Assignments, Roster, Reports, and Assessments. The main header (callout 2) includes a search bar and a '6T' dropdown. The 'Table of Contents' dropdown (callout 4) is open, listing various units and resources. A 'View more' button is visible next to the unit list. The main content area (callout 3) features a large image of a train and sections for 'Book Options' (Teacher Edition and Interactive Student Edition) and 'Additional Resources' (Walkthrough - Student Digital Tour and Walkthrough - Teacher Digital Tour).

## 1. Use side menu to locate:

- Dashboard
- Course
- Gradebook
- Calendar
- Assignments
- Roster
- Reports
- Assessments

## 2. Search content by keyword or standard.

## 3. Access eBooks including Teacher Editions and Interactive Student Editions.

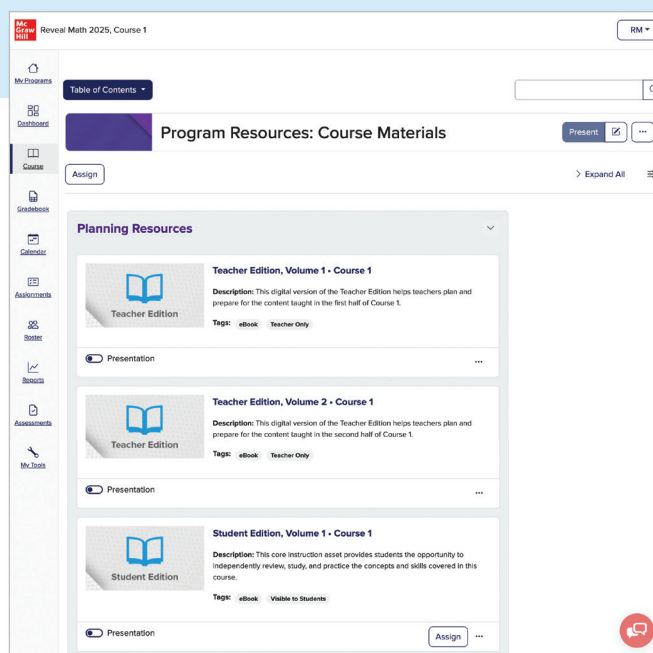
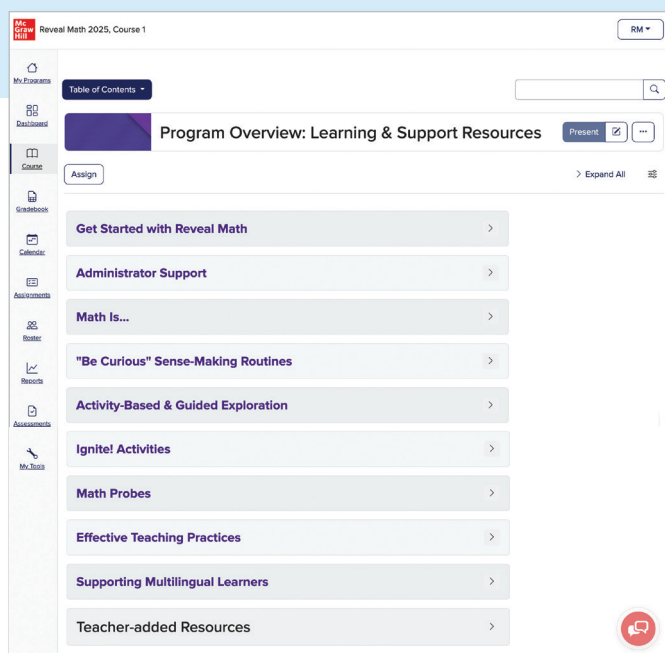
## 4. Click on **Table of Contents** to quickly navigate the course.

## 5. From the **Table of Contents**, click on the unit or lesson name to access the instructional resources.

# Program Resources and Professional Development

Locate Program Resources from the Teacher Dashboard:

- Click **Table of Contents**.
- **Program Resources and Professional Developmental Materials** are located at the top of the **Table of Contents**.
- Click on the name of the resource you would like to review.



## Program Overview:

### Learning & Support Resources

Teachers and administrators have access to self-paced, on-demand **Learning and Support Resources**, including:

- A Quick Start Course
- Family Support Resources
- Digital Walkthrough Support
- Instructional Videos
- Workshop Modules

## Program Resources:

### Course Materials

The following resources are available under **Course Materials**:

- Teacher and Student eBooks
- Teacher Planning Resources
- eToolkit
- Glossary
- Foldables Study Guide



# Unit Resources

Click the **Table of Contents** and select a unit. Once you've reached your unit landing page, click **Expand All** to see the resources within each menu.

## 1. Easily Plan with Point-of-Use Resources

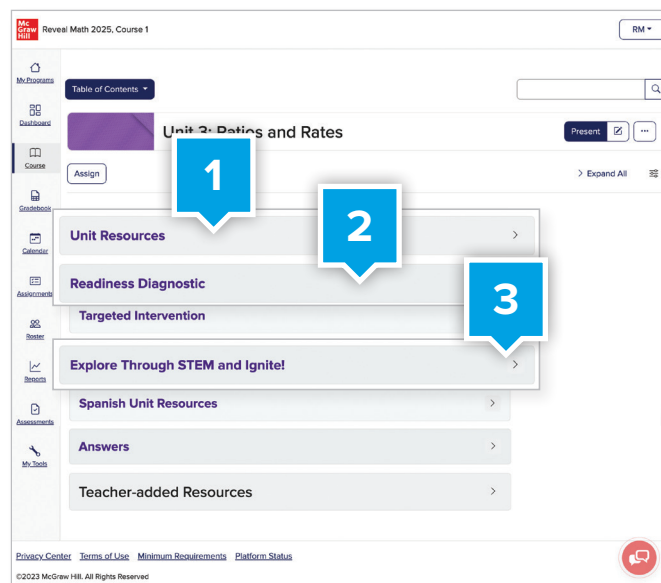
- How Do I Choose Teacher Support
- Interactive Student eBook and Teacher eBook
- Family Letters (English and Spanish)

## 2. Ensure Student Readiness

- **Readiness Diagnostic Assessment** to uncover any gaps in prerequisite knowledge needed to access the unit.
- **Targeted Intervention** resources, including Guided Supports and Skills Support Sheets, align to the beginning- and end-of-unit assessment items.

## 3. Explore STEM and Ignite!

- Each unit opens with an Ignite! activity, an interesting problem or puzzle that sparks students' interest and curiosity.



**Question 9**

The table shows the relationship between distance walked in meters and the time it takes in seconds. Which correctly explains whether the ratios of meters to seconds are equivalent? Choose the correct answer.

Meters	Seconds
7	4
14	8
21	12
28	16

They are not equivalent ratios because they are not all equal.

They are equivalent ratios because each is equal to  $\frac{7}{4} : 1$ .

They are equivalent ratios because each is equal to  $\frac{3}{4} : 1$ .

They are equivalent ratios because each is equal to  $1 : \frac{4}{7}$ .

**Guided Support**

**Materials**

- Green connecting cubes (20 per group)
- Red connecting cubes (20 per group)

**Begin the Activity**

Work with students individually or in pairs. Lay 12 green connecting cubes next to 4 red connecting cubes. Say: *The number of green cubes to red cubes is 12 to 4. The rate of green to red cubes is 12 to 4. This can be simplified by finding 12 divided by 4.*

*A rate is a ratio comparing two quantities with different kinds of units. A unit rate is a rate that is simplified so that, when written as a fraction, it has a denominator of 1. You can write 12 to 4 as a unit rate by simplifying  $\frac{12}{4}$ . To do this divide both 12 and 4 by 4.*

Demonstrate how to write the unit rate:  $\frac{12}{4} = \frac{3}{1}$ . Ask: *Why don't we want to write the rate as 3? Explain.* [Sample answer: A rate is a ratio between two numbers. 3 is not two numbers.] Ask: *What does the unit rate 3 to 1 mean for 12 green cubes to 4 red cubes?* [Sample answer: It means that for every 3 green cubes, there is 1 red cube. Therefore, there would be 4 groups of 3 green cubes and 1 red cube.] Arrange connecting cubes in four groups, each with 3 green cubes and 1 red cube, to illustrate the meaning.

**Ignite Activity: Proportional Relationships**

**Interactive Student Edition**

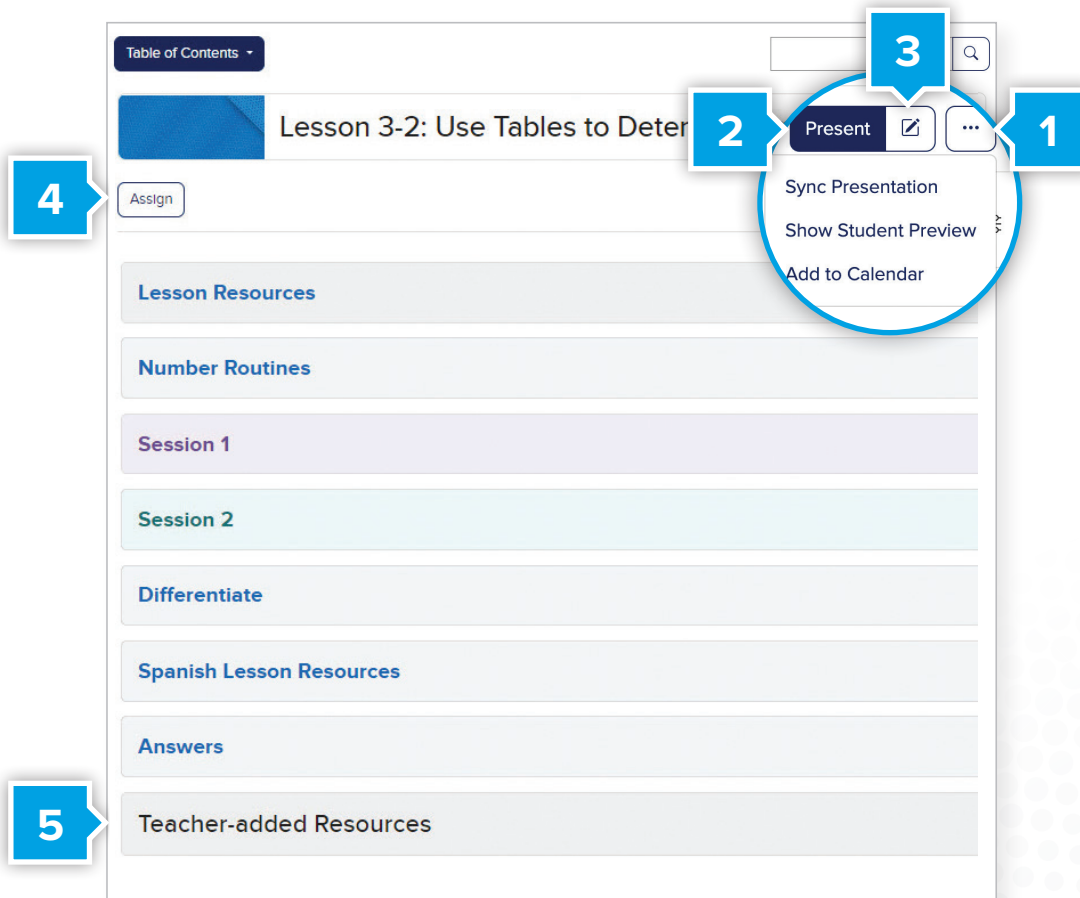
**Description:** This activity ignites student interest in the unit content by studying air sensors and air purifiers.

**Tags:** eBook Visible to Students

Presentation

# Lesson Resources for Teachers

Click the **Table of Contents** and select a lesson. Once you've reached your lesson landing page, click **Expand All** to see the resources within each menu.



1. **Add** a lesson to your class calendar.
2. **Launch** your lesson presentation here.
3. You can also rearrange or **Edit** the presentation by clicking the edit button.
4. **Assign** activities or assessments to an individual or a whole class.
5. Add your own resources to include in presentations or to assign to your students from the **Teacher-added Resources** menu.

You can easily plan and prepare using the simple layout organization that aligns with your print Teacher Edition.

1

# Lesson Resources for Students

Teachers can assign students access to several instructional resources, including their **Interactive Student Edition** and **Math Replay Videos**.

1. Click the section titled **Session 1** or **Session 2**.
2. Click on the tile images to view the instructional resources.

**Session 1**

**Session 2**

**Launch**

**Be Curious: Notice & Wonder**  
Description: This teacher presentation guides students through the Notice and Wonder routine to compare and contrast patterns composed of squares.  
Tags: Learning Resource

**Develop: Activity-Based Exploration**

**Activity Based Exploration: Constant Ratios**  
Description: This activity-based exploration helps students use tools and inquiry to learn about using tables to determine proportionality.  
Tags: Learning Resource Teacher Only

Calculator - Google Chrome  
d1e-cdn.mheducation.com/mhe/cmap/calculator/1.2.0/calculator.html?type=scientific

## Interactive Student Edition

When using their **Interactive Student Edition**, students can digitally take notes and answer questions, while accessing multimedia resources, **virtual manipulatives**, and a **Scientific calculator**.

- Access **virtual manipulatives** using the **eToolkit** located on the top right corner of their **Interactive Student Edition**.
- Access the **calculator** by using the button in the top right corner next to the eToolkit.

Math Replay: Use Tables to Determine Proportionality

POPCORN KERNELS

Use 1 tsp seasoning for every  $\frac{1}{4}$  c of unpopped kernels.

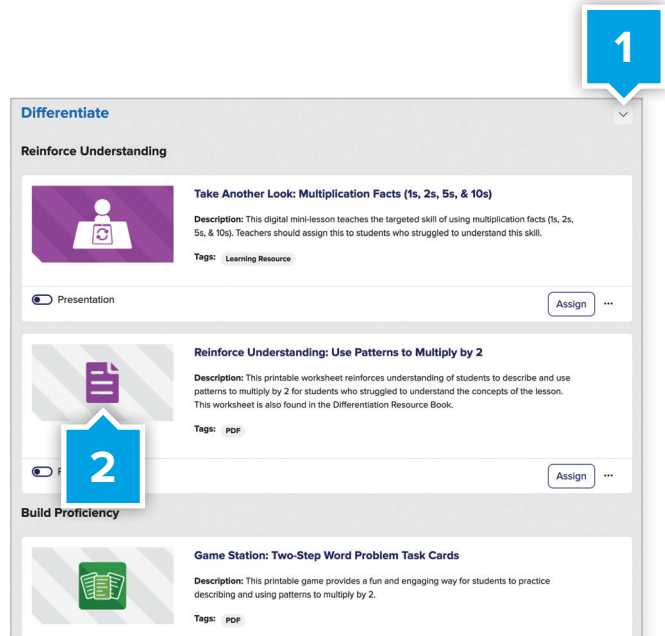
**MATH REPLAY**

## Math Replay

**Math Replay Videos** review the lesson concept for students and parents and can be referenced while completing independent work.

# Differentiation Resources

1. Review digital differentiation resources by clicking the section titled **Differentiate** within the lesson.
2. Click on the tile images to view the instructional resources.



## Assignable Differentiated Activities

Following the Exit Ticket, teachers can deploy a variety of differentiated digital activities in addition to the purposeful practice provided with hands-on practice sheets.

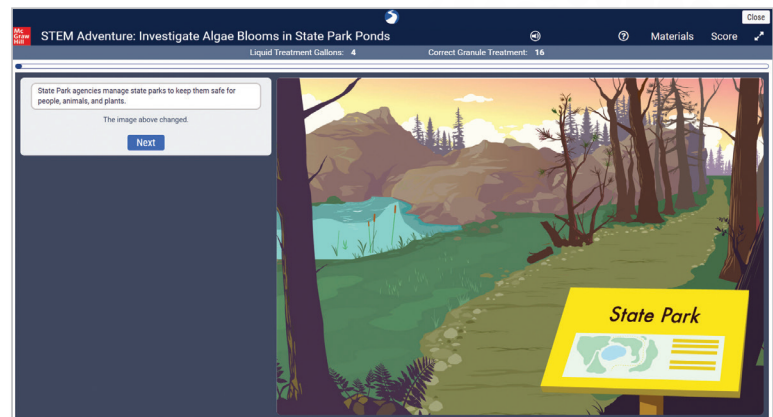
### Reinforce Understanding

Sculpting Classes	2	4	6
Cost (\$)	40	70	100

$\frac{2}{40} = \frac{1}{20}$       $\frac{4}{70} = \frac{2}{35}$       $\frac{6}{100} = \frac{3}{50}$

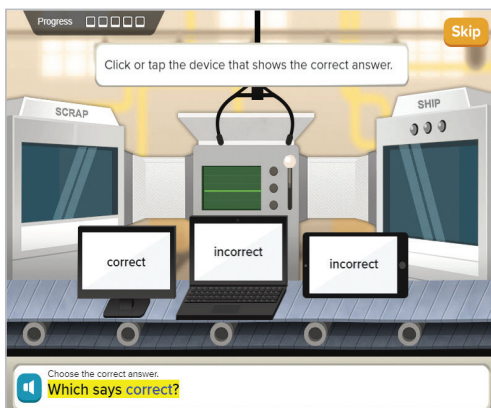
Take Another Look: Mini-Lesson

### Extend Thinking



STEM Adventure

### Build Proficiency



Digital Game

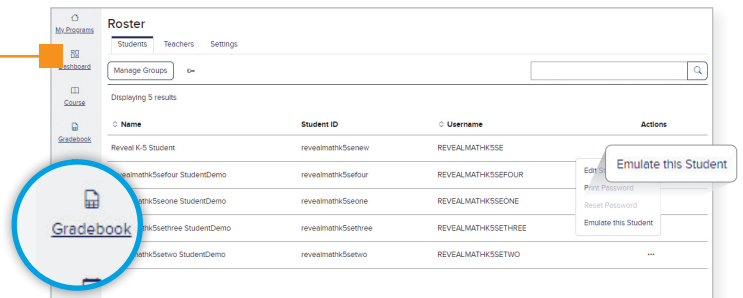


# Classroom Management Tools

From the **Main Menu** on the left of the screen, click **Roster** to view some of the tools that make planning easier.

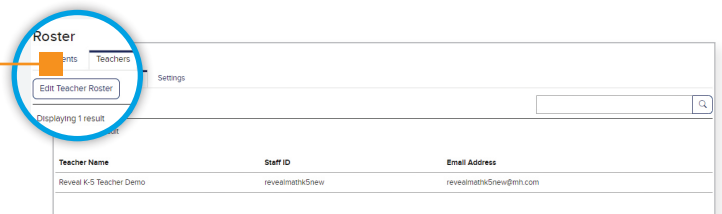
## Preview Student Experience

**Emulate this Student** allows teachers to view which resources students will see and have access to in their Digital Student Center.



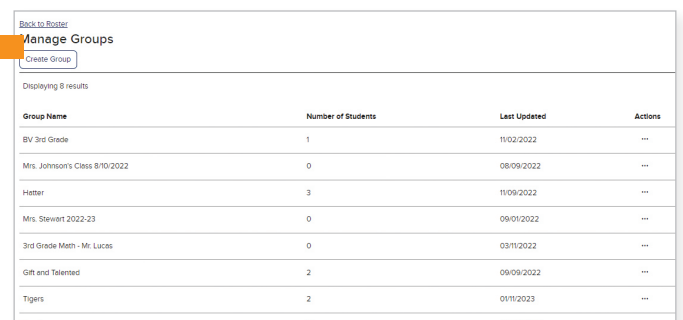
## Share Your Class

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



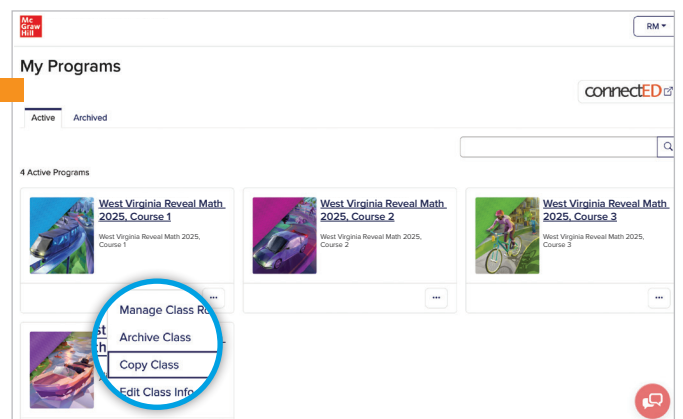
## Group Your Students

Groups can be defined and used to differentiate assignments or assessments.



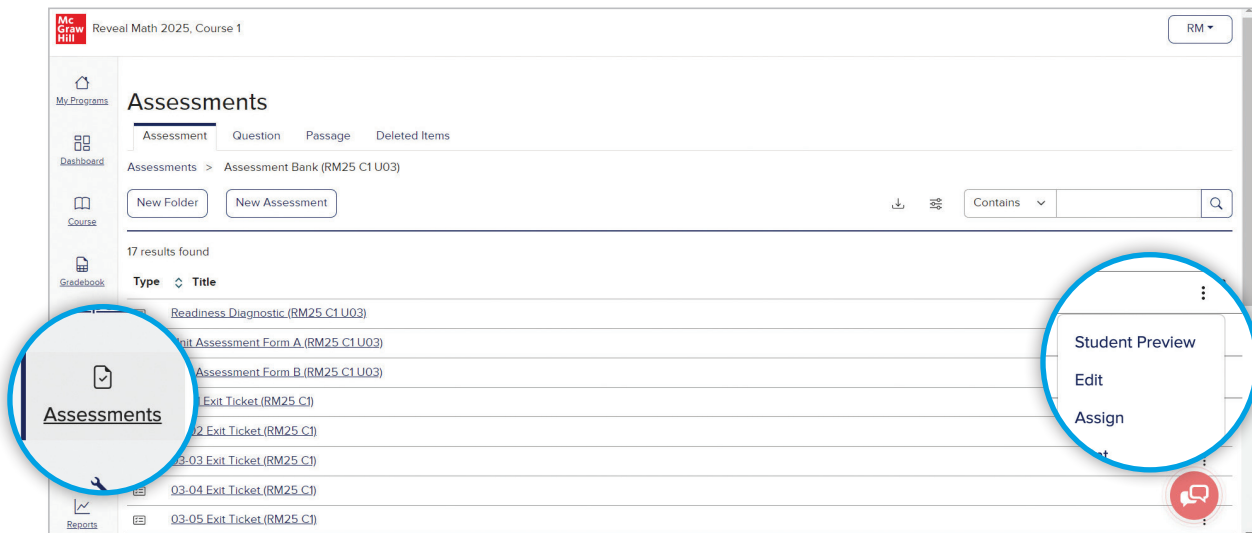
## Copy Class

Copy Class feature lives on the **My Programs** page and allows enables to copy all course assignments and customizations to another class.



# Digital Assessment Resources

From the **Main Menu** on the left of the screen, click **Assessments** to view all assessment items. Click into any folder.



From the right of any assessment, click the Three-Dot Menu to view questions as a student, edit, or export question metadata including West Virginia CCR Standards by question.

*West Virginia Reveal Math* offers a comprehensive set of assessment tools. Assessments can be assigned from Unit and Lesson landing pages. All digital assessments have a PDF alternative. Digital assessments include:

- Course Diagnostic
- Course Benchmark Assessments
- Unit Readiness Diagnostic
- Unit Assessment Form A
- Unit Assessment Form B
- Summative Assessment
- Lesson Exit Tickets

## Customize for Classroom Needs

You can assign assessments to an individual student, group, or whole class and customize the assessment experience settings and support tools to meet student needs. You can also share customized assessments with other teachers.

Easily edit existing assessments or create your own using question banks and authoring tools that offer the following question types:

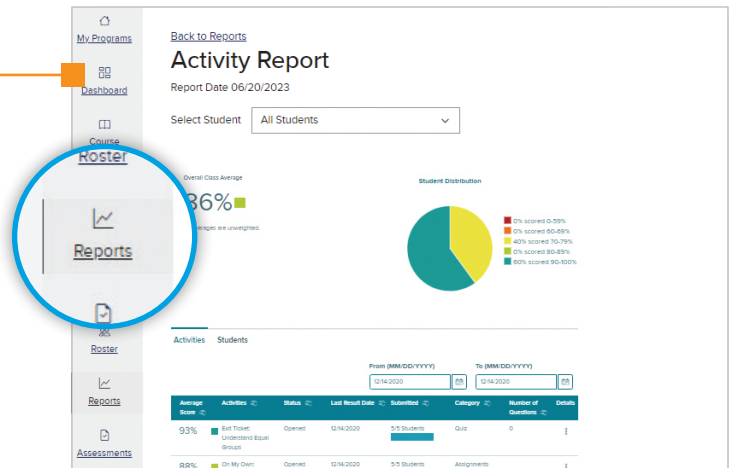
- Multiple Choice
- Fill-in-the-Blank
- True/False
- Multiple Choice, Multi-Select
- Equation Entry
- Matching
- Bucketing
- Ordering
- Choice Matrix
- Grid-In
- Audio Recording
- Number Line and more!

# Dynamic Reporting

From the **Main Menu** on the left of the screen, click **Reports**. *West Virginia Reveal Math's* interactive performance reports provide immediate feedback that allows teachers to make data-driven instructional decisions.

## Activity Performance Report

You can review useful data points for class activities, including item analysis by student and class. On the Dashboard the overall class average for all completed activities is displayed alongside the distribution of student scores in the pie chart.



## Standards Performance Report

You can access information on class performance by West Virginia CCR Mathematics Standard, including a cumulative score by class and student.

The screenshot shows the 'Standards Performance Report' interface. At the top are filters: West Virginia, College and Career, Mathematics (2010), and Grade 3. Below the filters are options for 'Show: Assessed' (set to All) and 'Show Description'. A legend indicates score ranges: 0 - 59% (red), 60 - 69% (orange), 70 - 79% (yellow), 80 - 89% (green), and 90 - 100% (dark green). The main content is a table with columns: Standards, Description, Class Avg, and Questions.

Standards	Description	Class Avg	Questions
M.7.2	Recognize and represent proportional relationships between quantities.	82%	9
M.7.2a	Decide whether two quantities are in a proportional relationship (e.g., by testing for equivalent ratios in a table or graphing on a coordinate plane and observing whether the graph is a straight line through the origin).	82%	9
M.7.2b	Identify the constant of proportionality (unit rate) in tables, graphs, equations, diagrams, and verbal descriptions of proportional relationships.	82%	9



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**MATH**<sup>®</sup>

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Reveal the Full Potential in Every Student

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Learn more at  
[mheonline.com/westvirginia](http://mheonline.com/westvirginia)

