

Alabama Reveal

Program Walkthrough Grades 6–8

Your Guide to Using Alabama Reveal Math[®] in the Classroom

mheonline.com/Alabama



Learn How Alabama Reveal Math Can Transform Your Math Classroom!

The blended print/digital approach of *Alabama Reveal Math* enables students to engage more deeply with mathematics by using interactive digital tools, a softcover write-in Interactive Student Edition, and supporting resources that meet them where they are on their path to mastery of 2019 Alabama Course of Study: Mathematics.

Alabama Reveal Math's print and digital resources intersect where and when it makes sense. Digital tools enhance the learning experience, and the print Interactive Student Edition serves as a companion piece to the digital instruction. Teachers can utilize the resources with a projector or an interactive whiteboard, and, if students have access to technology, they can access resources on their own devices.

Instructional Model

The Alabama Reveal Math lesson is organized according to the three-part instructional model. Teachers leverage the customizable Interactive Presentation for the digital parts of the lesson and, if they wish to use print, they can have students work from the Interactive Student Edition. Each lesson includes opportunities for individual, small group, and whole class activities.

Launch



Students complete exercises that are presented by the teacher to activate prior knowledge and review prerequisite concepts and skills.

D Digital

Explore and Develop

Students work in pairs or small groups to explore an online rich task related to the lesson content. Explore Recording Sheets are also available for students who have limited or no access to devices. Students gain the foundational knowledge needed to actively work through upcoming Examples. Their understanding is formalized through guided instruction.





Students work through Examples related to the key concepts. Students complete a Check after each Example as a quick formative assessment to help teachers adjust instruction as needed.



Reflect and Practice

P Print D Digital



Teacher presents this Exit Ticket to provide students the opportunity to convey their understanding of lesson concepts.

D Digital

LAUNCH THE LESSON

to answer at the end of the lesson.

D Digital

Students view a real-world scenario presented by the

They are introduced to questions that they will be able

teacher to pique their interest in the lesson content.

Students complete Practice exercises individually or collaboratively to solidify their understanding of lesson concepts and build proficiency with lesson skills.

P Print D Digital





GROUP ACTIVITY



The Print Experience

The write-in Interactive Student Edition (ISE) provides students the opportunity to document and build upon the math concepts they're learning by offering fill-in-the-blank problems, areas for notes, and prompts to encourage critical thinking.



$\begin{tabular}{lllllllllllllllllllllllllllllllllll$	Pause and Reflect Did you struggle with any How do you feel when yo can you take to understan	t of the concepts in this E: u struggle with math con d those concepts?	xample and Check? cepts? What steps
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Encourage Students to Own Their Learning

The ISE includes areas for students to show their work, complete short formative assessments, take notes in the margins, and participate in metacognitive activities. **Pause and Reflect** question prompts encourage students to pause during instruction and reflect on their learning using writing.

Your Notes 7	When two points are in different quadrants and they have the same y-coordinate, add the absolute values of the x-coordinates to find the the same y-coordinates, so find the absolute value of each x-coordinate. Consider the points (-4, 2) and (1, 2). They have the same y-coordinates, so find the absolute value of each x-coordinate. Ind = H = H = The distance between the two points is 5 units. Example 1 Find Horizontal Distance in	
Think About It Are the x-coordinates the same or different? Are the y-coordinates the same or different?	Same Quadrant Find the horizontal distance between the two points. To find the horizontal distance between the two points. consider the scale on each axis. The scale of the axes is in g'-unit increments. Identify the ordered pair for each point. U	Think About It! Are the x-coordinates the same or different? Are the y-coordinates the same or different?
Calk About It! How can you check your solution? Explain the process you would use.	Since the y-coordinates are the same, find the absolute each x-coordinate. If $\frac{ 2 }{2} = $ $ 2 = $ Because the points are in the same quadrant, subtract values of the x-coordinates to find the distance betwee $2 - \frac{1}{2} = \frac{1}{2}$	the absol
	So. points U and Vare unit(s) apart. Check Find the horizontal distance between the two points.	How can you check your solution? Explain a process you could use.
246 Module 4 - Interver Dat	Go Online You can complete an Extra Example online.	

Connect to Concepts

Writing directly in the ISE keeps students engaged in their learning process by maintaining their problems, answers, and notes in one cohesive location.

Build to Rigorous Application

Students actively work through a multi-step problem-solving scenario in the **Apply** pages of the ISE. These open-ended application problems require students to formulate a plan and a strategy for solving the problem. In the **Write About It!** step, students build proficiency with the Standard for Mathematical Practice 3 as they construct an argument to defend their solution.



O Apply Distance

The Digital Experience

The Alabama Reveal Math digital experience provides an unprecedented amount of flexibility for the teacher in the Teacher Digital Center, including interactive modules, lessons, resources, and assessments. The Student Digital Center provides students access to the complete interactive course, a full suite of interactive digital tools, and study aids.



ReadAnywhere App allows for student access to the eBook offline.

Utilize Customizable Interactive Presentations

In *Alabama Reveal Math*, an **Interactive Presentation** is provided with every lesson to display for the class. These include enhanced instructional content such as Web Sketchpad[®] activities, eTools, and technology-enhanced items like drag-and-drop, flashcard flips, and more. The **Interactive Presentation** is organized into modular assets that can be added to or removed from the presentation and arranged in any order the teacher chooses. Teachers also have the ability to decide which assets should be pushed out to the Student Digital Center so students can follow along with the teacher-created version of the **Interactive Presentation**.

Explore Alabama Reveal Math's Lesson Structure!

Log in to review the Alabama Reveal Math lesson structure online or follow along using the images on the next pages as a guide for both print and digital from Alabama Reveal Math Course 3, Module 4, Lesson 2. You'll find the same helpful features throughout every course of Alabama Reveal Math!

DIGITAL MUST-SEE

Look for the **Digital Must-See** icon which indicates when an online resource is available to enhance the lesson experience.

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Gradebook	Launch		v
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Settings	Teacher-added Resources		^
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Add Your Own Resources

Teachers can further customize the Interactive Presentation by adding their own resources. Each Module and Lesson Page in the Teacher Digital Center has an area for **Teacher-added Resources** that allows a teacher to add a file or a web link; these can be added to the Student Digital Center and/or included in the Interactive Presentation.

Integrated Digital Tools

Both students and teachers benefit from the digital interactive elements in *Alabama Reveal Math*, which are built directly into the instructional content and learning resources. Interactive items, like the **algebra tiles eTool**, as well as other eTools and Web Sketchpad[®] activities, keep students engaged with the math while also providing essential practice with computer-based testing functions.

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The Teacher Experience: Module Opener

Plan Your Module

The module opener pages show how *Alabama Reveal Math's* scope and sequence was designed to optimize students' understanding of major concepts through coherent and thoughtful learning progressions. These pages also demonstrate how the program incorporates the **Three Pillars of Rigor:** conceptual understanding, procedural skill and fluency, and application.

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PROBES Compare Grap	Assessment Math Probe its and Equations	
Analyze the Probe		
Review the probe prior to assigning it	to your students.	101 101
In this probe, students will determine explain their choices.	which graphs can represent each equation, and	and a set
Targeted Concept Understand how information about the general shape	the slope and y-intercept in an equation can give you of the graph.	All
Targeted Misconceptions		Landard
 Students may incorrectly think that 	without numbers on the graph, they cannot	110 HDn Terrytere
 Students may incorrectly assume th such as -5 to 5 or -10 to 10. 	at any graph without numbers shows a small range,	
Assign the probe after Lesson 6.		Correct Answers: 1. Graphs A, D;
		2. Graphs B. C. 3. Graphs A. D. A. Grantis B. C. 5. F.
Collect and Assess Student Wo	rk	
Rem. 1. Only chooses either Graph A er Graph D, but not both 2. Graph 2 3. Only chooses either Graph A or Graph D. but not both 4. Only chooses either Graph B or Graph C, but not both	assumes the range on the graphs must be smaller to Example: For item 2, -20 and -3 are too large to a	nan a cettain amount. opear on any of the graphs.
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Identify and Correct Misconceptions

Each module includes a **Cheryl Tobey Formative Assessment Math Probe** to help teachers identify and correct common student errors and misconceptions. The **Take Action** section of the teacher notes includes suggested resources to help teachers address any misconceptions students may have.

Spark Students' Curiosity

Each module contains an **Ignite!** activity to spark the curiosity of students and engage them in math discovery.



In every Module Opener, for the teacher:

- Module Goal
- Domain and Major Cluster(s)
- Standards for Mathematical
- Content and Practice
- Coherence: Vertical Alignment
- Three Pillars of Rigor
- Suggested Pacing
- Ignite! Activity

- Cheryl Tobey Formative
 Assessment Math Probe
- Mindset Matters tips
- Module Pretest (online)

The Student Experience: Module Opener

Outline Instructional Objectives

Each module opens with an **Essential Question**. Students track their progress by evaluating their learning at the beginning and end of the module with the **What Will You Learn?**



Connect to Real-World Applications

DIGITAL MUST-SEE

Teachers can project the **Launch the Module videos** or make them available to students to access on their own devices. These videos engage students in the module's content and show mathematical concepts in action in everyday life.



In every Module Opener, for the student:

- Essential Question
- What Will You Learn?
- Foldables
- Ignite! Activity

- What Vocabulary Will You Learn?
- Are You Ready?
- Launch the Module video (online)
- Problem Solving Strategies (online)
- Personal Tutors in English and Spanish (online)



The Teacher Experience: Lesson Opener

Plan Your Lesson

The lesson opener pages provide useful information for planning, like **Suggested Pacing**, **Lesson Goal**, **Mathematical Background**, **Language Development Support**, **Focus**, **Coherence**, and **Rigor**.



■ ← 1 of 1 →		
Warm Up		
Simplify each expression.		
1. 1 – (–4)	2. -5 - 2	
3. -20 - (-4)	4. -43 - 6	
5. Si formed the followin represent the corners or $2), (-4, -2), and (4, -2) coordinate grid.$	ng ordered pairs to f a building: (—4, 2), (4, . Plot the points on a	

Review Prerequisite Skills



Teachers can utilize the **Warm Up** as a bell-ringer to determine whether students are proficient in the prerequisite skills needed for the lesson.

In every Lesson Opener, for the teacher:

- Lesson Goal
- Suggested Pacing
- Domain and Major Cluster(s)
- Standards for Mathematical
- Content and Practice
- Coherence: Vertical Alignment
- Three Pillars of Rigor and Conceptual Bridge
- Mathematical Background
- Differentiation reference chart
- Language Development Support
- Warm Up (online)
- Launch the Lesson teaching notes and questions for mathematical discourse (online)

The Student Experience: Lesson Opener

Identify Learning Targets

Each lesson begins with an **I Can** statement framed in positive language to help students connect the lesson's purpose to their learning goals and monitor their progress towards reaching them.



I Can... identify the slope of a line and interpret it as the rate of change in the situation it models.





Provide Opportunities for Mathematical Discourse

DIGITAL MUST-SEE

Launch the Lesson provides a real-world math scenario and a Talk About It! prompt to engage students and facilitate class discussion. This presentation asset helps teachers determine students' level of conceptual understanding on the topic.

In every Lesson Opener, for the student:

- I Can statement
- Launch the Lesson (online)
- Today's Standards
- What Vocabulary Will You Learn?



The Teacher Experience: Explore and Learn

Purposefully Integrate Technology

In Alabama Reveal Math, digital resources are not "supplementary" or "nice to haves." They're central to the instruction and integrated right at point-of-use in the lesson. Purple icons in the sidebar of the Teacher Edition indicate exactly which types of technology-enhanced items are available at each step of the lesson, and the **Interactive Presentation** column depicts a snapshot of the presentation slides.





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Demonstrate the Standards for Mathematical Practices

Throughout each lesson, strategies for demonstrating the Standards for Mathematical Practice are found in the Explores, Learns, and Examples; these are labeled **Teaching**

Reach All Learners with Leveled Activities

Each lesson includes multiple **Differentiate** activities for enrichment and reteaching, as well as language development activities for English Language Learners. EXPLOR

EXAMPLE

EXIT TICKE

PRACTI

The Student Experience: Explore and Learn

Build Conceptual Understanding

Conceptual understanding is initiated through the use of **Explore** activities and **Learn** resources for each lesson. Students can interact with **Explore** activities on their devices or on Explore Recording Sheets. Students can access and interact with the **Learn** content on their own devices, or the teacher can project the **Learn** content for whole-class presentation.





Dynamically Demonstrate Math Concepts in Action

DIGITAL MUST-SEE

Web Sketchpad® activities, powered by Geometer's Sketchpad®, are designed to build students' conceptual understanding through highly visual, interactive, and open-ended exploration.



The Teacher Experience: Examples and Check

Invite Class Discussion

In the Teacher Edition, **Questions for Mathematical Discourse** are included for each example to promote critical thinking skills. On-level (OL) questions and beyond-level (BL) questions are appropriate for all students to answer, while approaching-level (AL) questions are included if students need more scaffolded support.





Encourage Productive Struggle

Apply problems provide students with opportunities to engage in rich-problem solving tasks in which students need to generate their own solution strategies and construct arguments to defend their solution. The Teacher Edition includes tips on how to recognize and address non-productive struggle.

In every Explore and Develop, for the teacher:

- Objectives
- Teaching the Mathematical Practices tips
- Additional teaching notes
- Additional sample answers to the Talk About It! prompts (online)
- Explore
 - Recording sheets (for students who don't have devices; found online in Additional Resources)
- Learn

- Examples
 - Extra Examples (online)
- Apply problems
- Checks (in print and online; online, the Checks are found at the end of each Example resource)



Solve Rich Tasks

In *Alabama Reveal Math*, students encounter rich tasks in the form of **Apply** problems. Students engage in productive struggle as they make sense of the task (which allows for multiple entry points and solution paths), devise their own solution, and defend their solution using mathematical reasoning.

Enhance the Learning Moment with Embedded Lesson Interactivity



Students can complete the **Examples** and **Checks** online or in their Interactive Student Editions. When completed online, **Examples** provide added engagement and interactivity. **Checks** follow each **Example** and, when assigned and completed online, provide performance data so you can adjust instruction as needed.



1 What is the task?

3 What is your solution? Use your strategy to solve the problem.

your solution.

Make sure you understand exactly what question to answer or problem to solve. You may want to read the problem three times. Discuss these questions with a partner.

Second Time What mathematics do you see in the problem? Third Time What are you wondering about?

4 How can you show your solution is reasonable?

First Time Describe the context of the problem, in your own words

w can you approach the task? What strategies can you

In every Explore and Develop, for the student:

- Think About It! and Talk About It!
 prompts
- Technology-enhanced items (online)
- Interactive Explore activities, in most lessons (online)
 - Web Sketchpad activities
- Learn
 - Interactive elements, like flashcard flips, animations, and open-ended response items (online)
- Examples
 - Extra Examples (online)
- Apply problems
- Checks (in print and online; online, the Checks are found at the end of each Example resource)

The Teacher Experience: Exit Ticket and Practice

Assess Students' Understanding

DIGITAL MUST-SEE

Use the **Exit Ticket** to give students an opportunity to convey their understanding of lesson concepts before moving on. These digital activities can be projected or accessed via students' individual devices.



Differentiate Based on Actionable Data

EXIT TICKET

At the end of each lesson, an **Assess and Differentiate** chart provides teachers with suggestions on which resources to assign to students to ensure every student meets their full potential. For the lesson, teachers utilize the data from online **Checks** to determine if a student is approaching-level (AL), on-level (OL), or beyond-level (BL).

Target Different Depths of Knowledge

Depth of Knowledge (DOK) correlations are available in the Teacher Edition to provide guidance when assigning the appropriate exercises to each student's needs. Additional **Practice** questions can be found in the digital center and can be sorted by DOK as well as by the standard.

In every Reflect and Practice, for the teacher:

- Assess and Differentiate
- Suggested Practice exercises
 based on DOK level
- Common Misconceptions
- Collaborative Practice activities
- Exit Ticket (online)
- Leveled Practice assignments
 (online)
- Collaboration Strategy (online)
- Review remediation resources (online)
- Extension activities (online)
- Take Another Look mini-lessons for extra topic support (online)

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The Student Experience: Targeted Support, Practice, and Exit Ticket

Make an Impact with Embedded Reteach Support

and Apply

Part 2: Interactive Practice

The digital **Take Another Look** mini-lessons in **Arrive Math[™]** supplement core instruction with targeted skill support and extra practice. About 100 of these digital, student-driven lessons are included in each Alabama Reveal Math course.

To receive access to all 1,160 Take Another Look lessons, plus hands-on lessons and games, ask your sales representative about purchasing Arrive Math Booster, a K-8 supplemental intervention program.

Each 15-minute student-driven, digital lesson contains three parts:

Choose from Different Homework Options

Teachers can choose to assign students **Practice** exercises either in the Interactive Student Edition or online.

Convey Concepts Learned

In the Exit Ticket students will convey and be assessed on their understanding of the concepts they've learned throughout the lesson. Teachers can determine if they want the Exit Ticket to be administered via class discussion, partner work, or individually.

In every Reflect and Practice, for the student

- Pause and Reflect
- Practice (print and online)
- Spiral review assignments (online)
- Put It All Together (online in selected lessons)





Part 3: Data Check





Part 1: Model Concept

The Teacher Experience: Module Review

Prepare Students for Summative Assessments

DIGITAL MUST-SEE

LearnSmart is an online, interactive study tool that provides students with additional online practice and resources as they study for summative and end-of year assessments. **LearnSmart** can be used as a topic review at the end of several modules to build topic mastery. With the use of multiple question types including technology-enhanced questions, **LearnSmart** analyzes which topics students are most likely to forget and allows students to choose and utilize engaging resources to build retention prior to end-of-module assessments.

LearnSmart · Expressions and Equations		🖩 🗷 💢 ×
Learnsmart - Expressions and Equations Mastering the 21st Century Assessments: Course 3 Click on the exponents you want to select and drag them into the boxes to show an equivalent expression.	•	About This Resource Asign LearnSmart content to students to ensure mastery of module topics. Additional practice, review, and supporting resources focuses them on topic retention and targets areas that require more support prior to midyare and end-of-course assessments. Students can-advamement to find the topic. The topics covered in this module are: Stope of a Line and Rate of Change: Information Bescription: An online, interactive study tool, LearnSmart provides students with additional online practice and resources as they study for summative and end-of-year assessments.
PROCRESS: Expressions and Equations 1%		

In every Module Review, for the teacher:

- Review and Assessment Options
- LearnSmart correlations
- Test Practice standards correlations
- Module Review (online)

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Module Vocabulary Activity (online)

- Module Vocabulary Test (online)
- Leveled Module Tests (online; available in printable format as well)
- Performance Task with Scoring Rubric (online)

The Student Experience: Module Review

Incorporate Opportunities for Writing Mathematics Content

Alabama Reveal Math provides explicit opportunities for students to engage in writing mathematically. Each module review includes a **Rate Yourself!** activity that allows students to reflect on what they've learned, as well as pose any questions they might still have. The **Reflect on the Module** graphic organizer asks students to return to the **Essential Question** and clarify their understanding of the module goal.

Essential Question	proportional relationships?
Proportional Relationships	Nonproportional Linear Belationshins
Equation	Equation
Slope	Sope
y Intercept	y intercept
Description of Graph	Description of Graph

Provide Review of Module Concepts

DIGITAL MUST-SEE

Personal Tutor videos, available in both English and Spanish, feature teachers explaining step-by-step solutions to problems that are similar to those presented in the module. Teachers can have students watch these videos if they need help while completing their homework, or in preparation for studying for the module assessment.



In every Module Review, for the student:

- Foldables
- Rate Yourself!
- Reflect on the Module graphic organizer
- Test Practice

- Personal Tutors (online and in Spanish)
- Module Review (online)
- Vocabulary Activity (online)

Assessment

Alabama Reveal Math provides opportunities for frequent and varied progress monitoring of student performance. Assessments are carefully designed to elicit observable evidence of student proficiency. The course provides multiple types of assessments at the lesson, module, and course level.

Lesson-Level Assessments

Each **Example** includes a formative assessment checkpoint, called **Check**, that can be used to determine if students understand the math presented in the Example and are ready to move on.







The **bar graph icon** on digital assets indicates that, when students are assigned the assessment and complete it online, performance data is collected for the teacher. Each module includes mid-module formative assessment checkpoints called **Put It All Together** that can be used to determine how well students can integrate the math presented in related topics/lessons to solve rich tasks.

D Digital

Each lesson concludes with an **Exit Ticket** that helps to confirm whether students have understood the concepts and content of the lesson before they begin their homework.

D Digital*

*The Exit Ticket is available in the Digital Centers but is meant to be completed verbally or in writing.

Each module includes a **Cheryl Tobey Formative Assessment Math Probe** that is intended to be assigned after students have completed a particular lesson. The probe is a formative assessment targeting one or more common misconceptions.

Digital/Printable*

*The document is accessed via the Teacher Digital Center and printed to be administered to students.

Module-Level Assessments

Each module includes the following premade assessments, located on the module landing page in each section noted. These assessments can also be found and customized within the Assessment area found in the main menu. It is recommended that these assessments be taken digitally to allow for more robust reporting, interactivity, and provide students with computer based test taking practice.

Module Pretest (Launch section)

Module Vocabulary Activity (Review and Assess section)

Module Vocabulary Test (Review and Assess section)

Module Review (Review and Assess section)

Leveled Module Tests (OL, AL, BL) (Review and Assess section)

*All digital assessments can also be downloaded, customized, and printed to be administered outside of the digital center.





Test Form A comes in three forms and is for on-level (OL) testing needs.

Test Form B is for approaching-level (AL) needs.



Test Form C is for beyond-level (BL) testing needs.

Module Performance Task and Scoring Rubric Digital/Printable (Review and Assess section)

LearnSmart can be used as a topic review at the end of a module to reinforce topic mastery.

D Digital

Course-Level Assessments

The course contains the following premade assessments, located in the Program Resources/Course Materials section in the Course Assessments section.

Diagnostic and Placement Test

End of Course Test

Benchmark Tests

- D Digital/Printable
- **D** Digital/Printable
- **D** Digital/Printable



The three forms of the on-level module test provide teachers with **three versions of the same assessment** to discourage cheating.

- D Digital/Printable*
- Digital/Printable*
- Digital/Printable*
- D Digital* P Print
- D Digital*



The Solution for Today's Mathematics Classroom

Alabama Reveal Math is a coherent, vertically aligned core math solution that empowers educators to uncover the mathematician in every student through powerful explorations, rich mathematical discourse, and timely individualized learning opportunities.



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Learn more about Alabama Reveal Math

Go to **my.mheducation.com**. Use the following username and password to access the *Alabama Reveal Math* program:

Username: ALmath68 Password: ALmath68

Visit **mheonline.com/Alabama** to request a presentation from your McGraw Hill sales representative.



