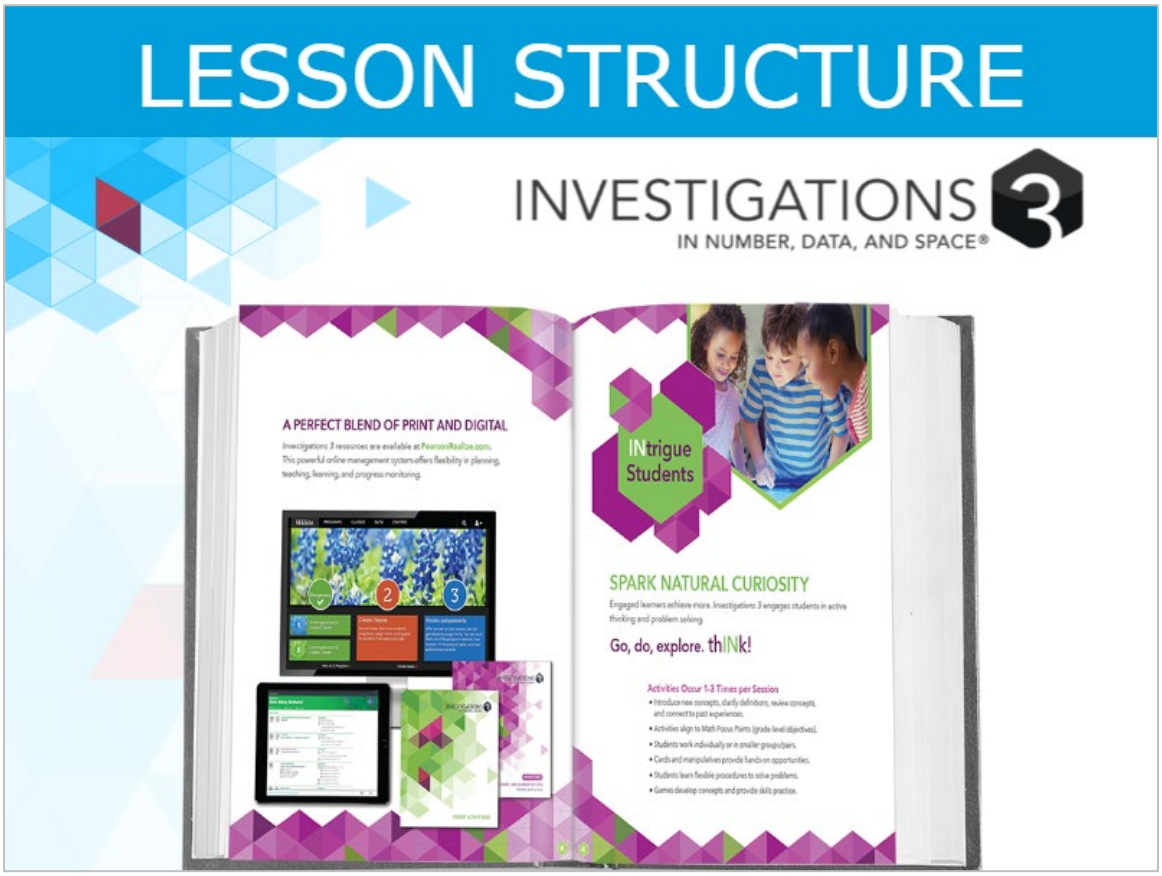
Investigations 3 © 2017
Lesson Structure

Introduction

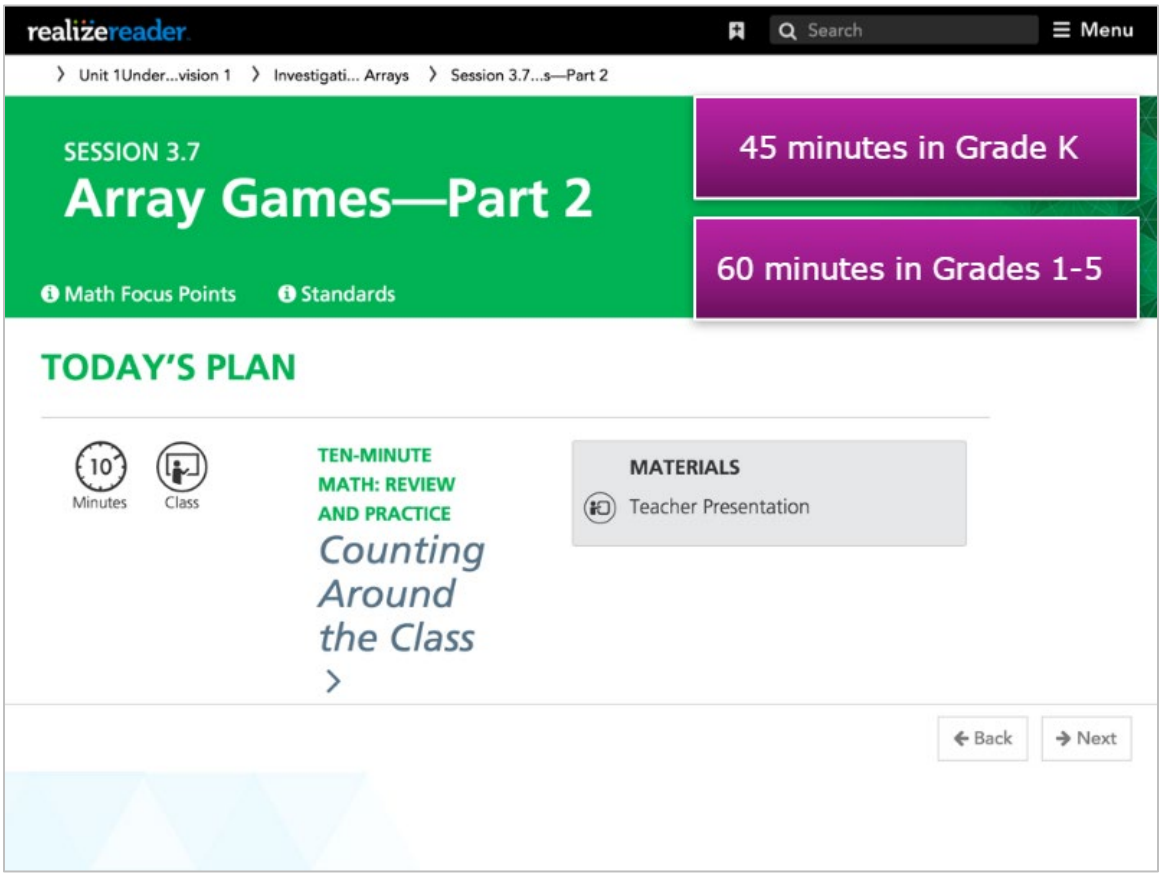


Hi. In this tutorial, we will look at the lesson structure in *Investigations 3*.

Today's Plan lists the activities for the day, any materials required, and in some cases, corresponding standards and vocabulary.

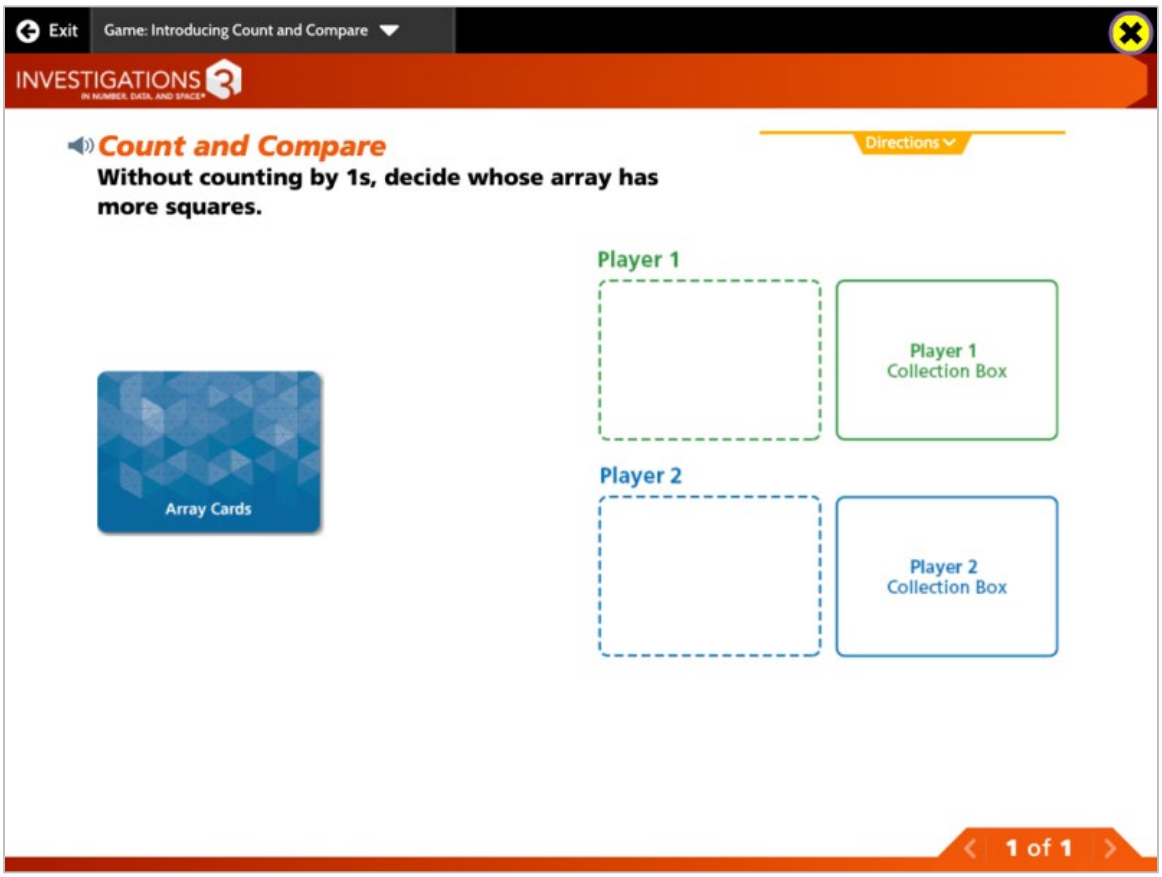
We'll review what's included in Today's Plan—Classroom Routines or Ten-Minute Math, the math session, and a Session follow-up.

Daily Math Session



The daily math session will be 45 minutes in Grade K and 60 minutes in Grades 1-5. Each one contains some combination of four components: activities, discussions, Math Workshop, and assessment. Let's take a closer look at each component.

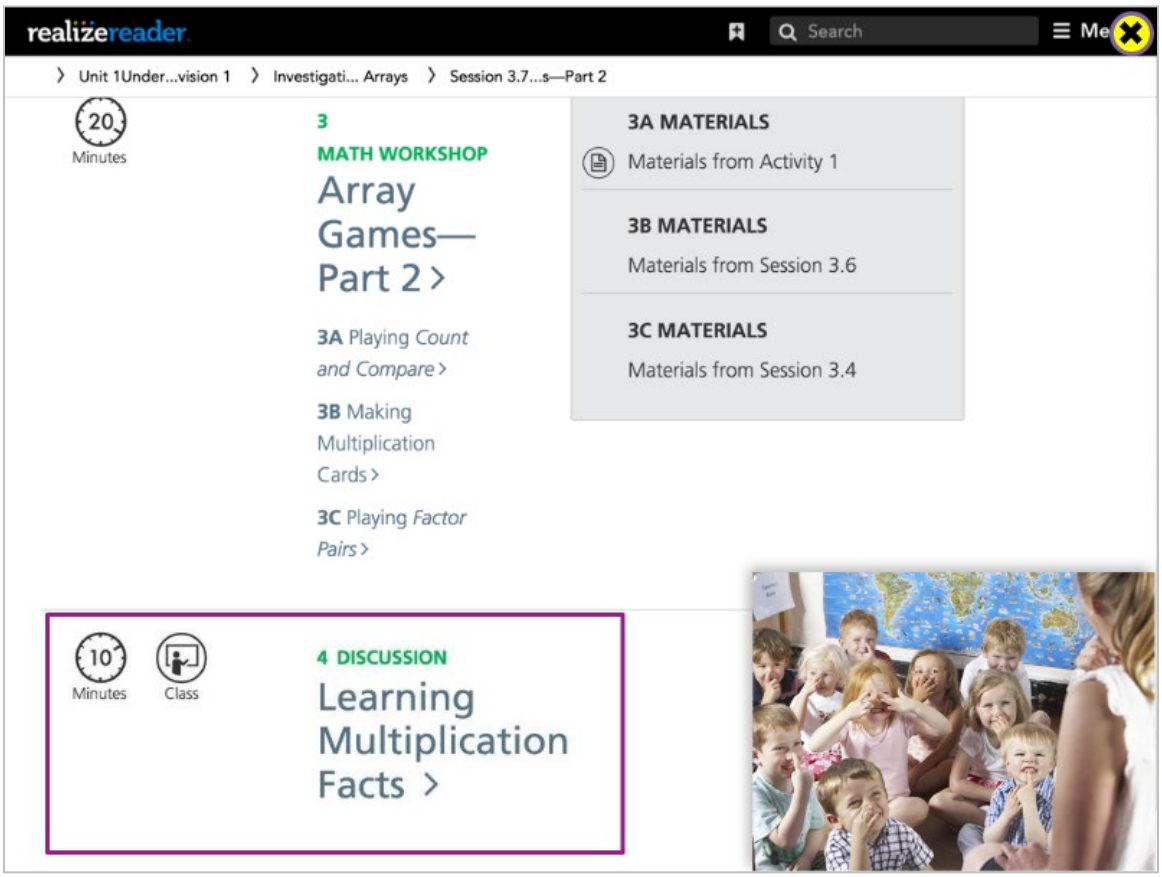
Activities



An activity introduces new mathematical ideas for students to investigate. Activities are designed for the whole class, small-group work, or individual work.

Many activities are available as digital presentations on Savvas Realize™. When using your eText for planning, you will see an icon indicating activities that can be presented digitally.

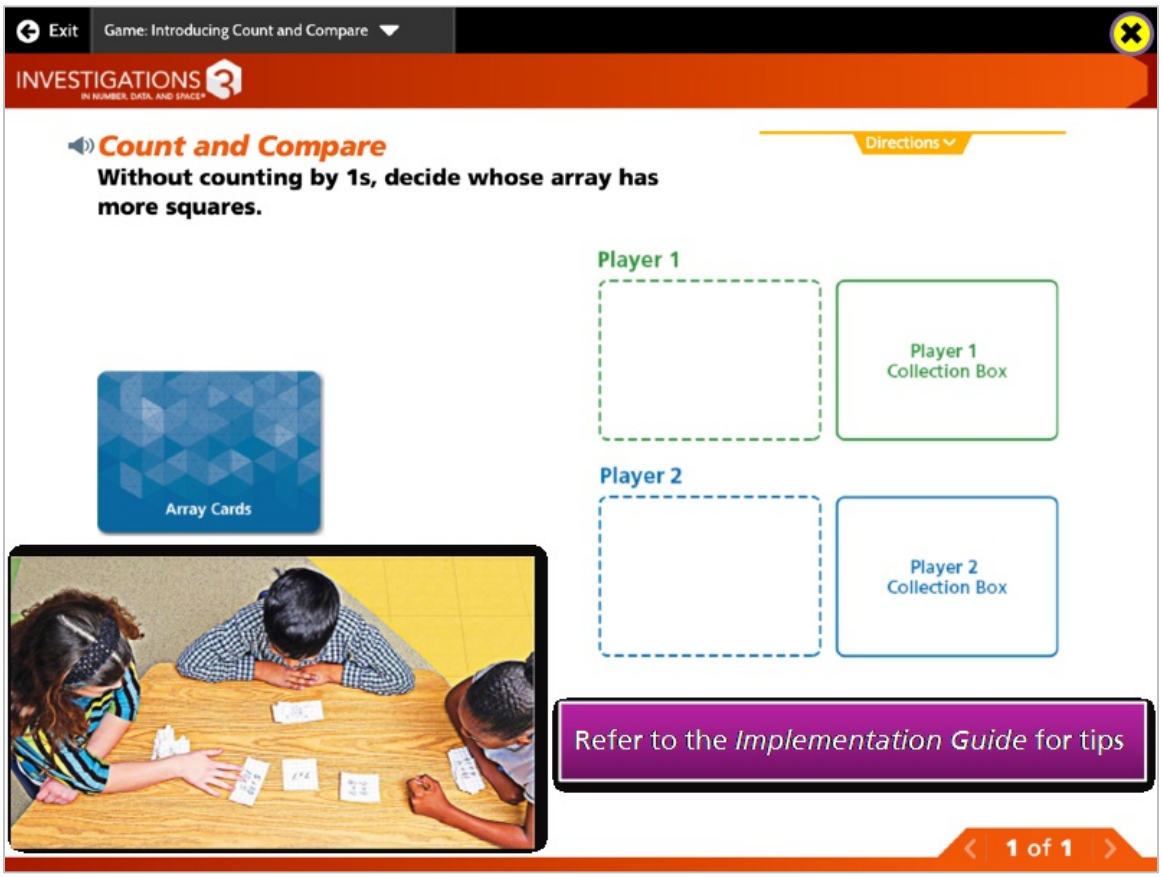
Discussions



Many Sessions include a whole-class Discussion. Often a Discussion will follow an activity or Math Workshop so that key ideas and connections from those activities can be articulated. Discussions are student-centered, meaning student work and ideas are the foundation from which mathematical concepts are built. It is important to allow time for class discussion, even if students have not completely finished an activity.

The curriculum unit provides several resources to guide your Discussions. Teacher Talk, indicated with blue text, suggests questions to ask your students. The Students Might Say feature can help you respond to students' feedback.

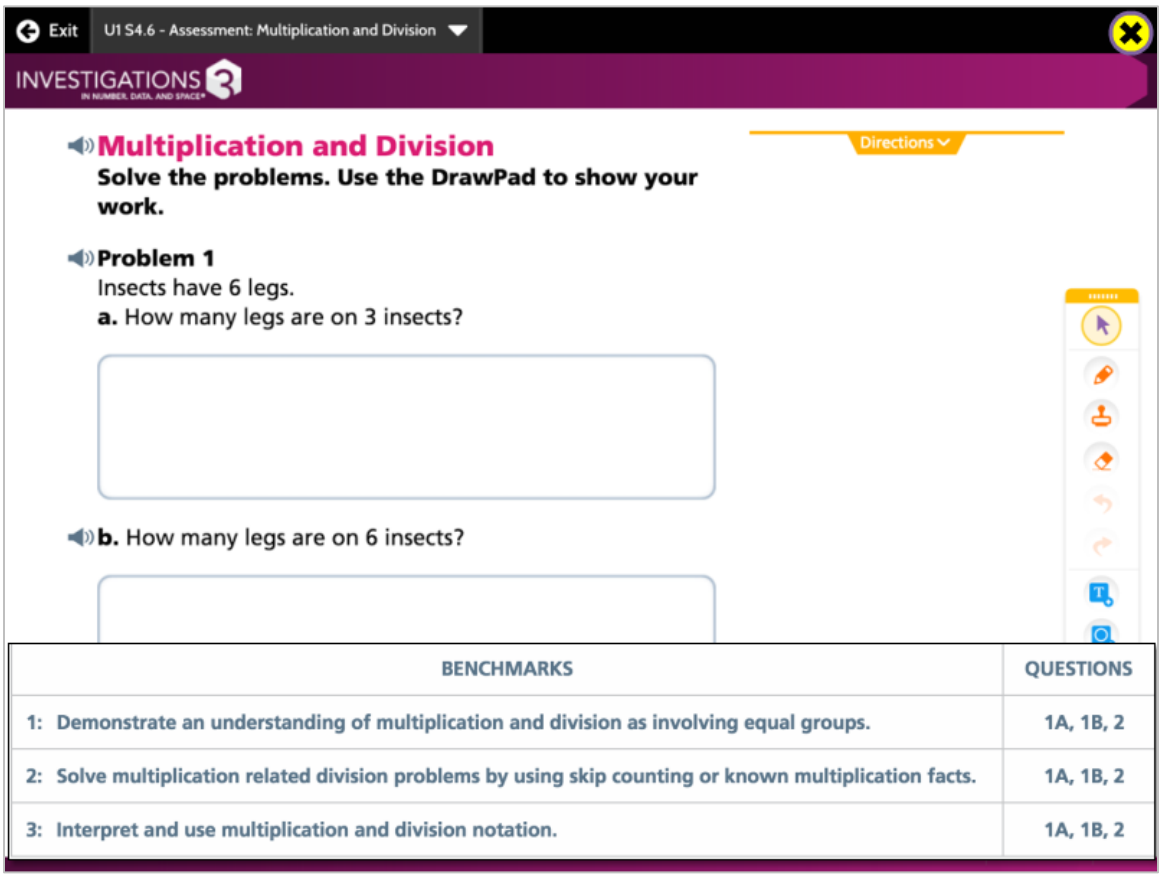
Math Workshop



Some Sessions include a Math Workshop, where students choose from and complete a set of activities. Students might work individually, in pairs, or in small groups.

In this Math Workshop, students play a game in pairs. When they finish the game, they might choose an individual activity. The program allows students to work on activities as long as they need to, rather than adhering to a set rotation schedule. Refer to the *Implementation Guide* for tips on organizing your Math Workshops.

Assessment Activities and Quizzes



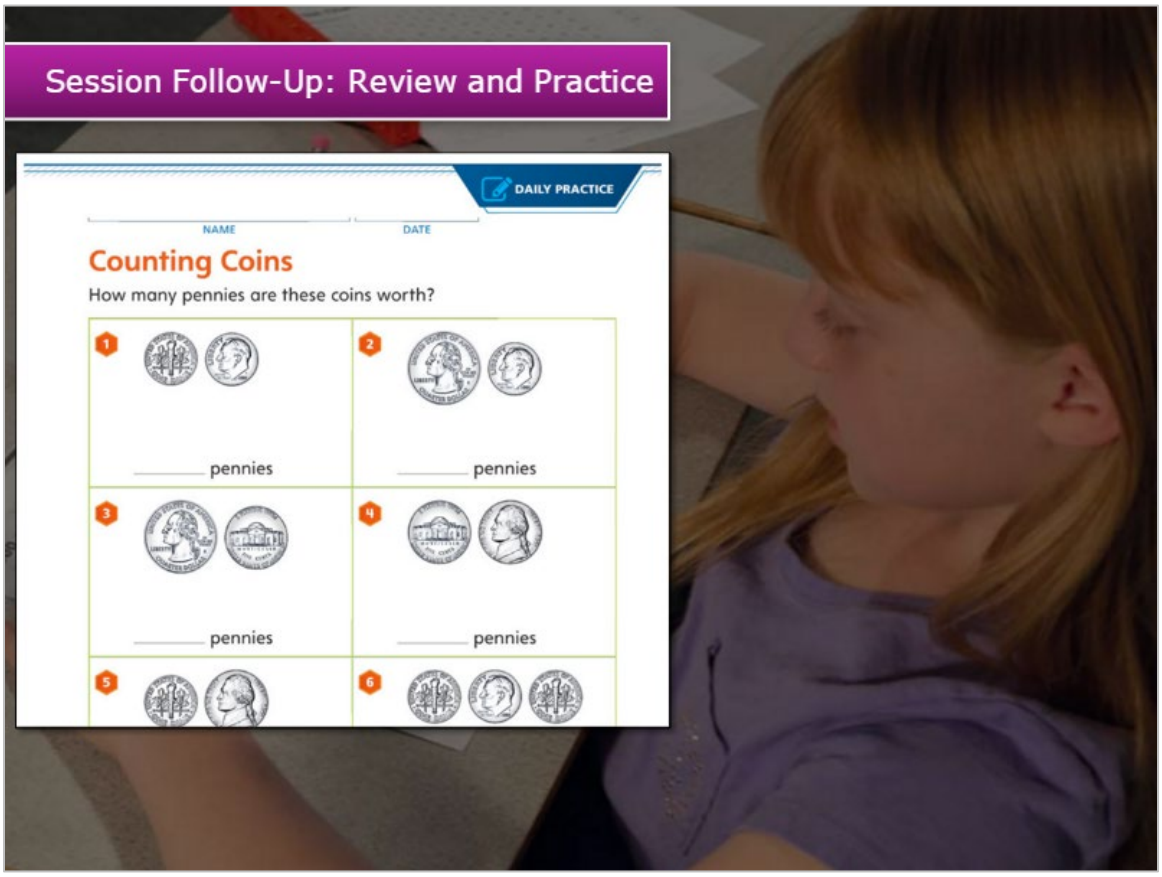
BENCHMARKS	QUESTIONS
1: Demonstrate an understanding of multiplication and division as involving equal groups.	1A, 1B, 2
2: Solve multiplication related division problems by using skip counting or known multiplication facts.	1A, 1B, 2
3: Interpret and use multiplication and division notation.	1A, 1B, 2

Some Sessions include an Assessment Activity, where students are assessed on their progress toward unit-specific benchmarks through written work and observations.

Quizzes are short assessments that also help you to monitor students' progress toward the benchmarks. They appear about every eight to ten Sessions in Grades 1–5. Quiz information is taken into account with the other written assessments, portfolio opportunities, and student observations to present a comprehensive view of students' progress toward the benchmarks. Quiz questions are designed to give students experience with question formats they are likely to encounter on other tests.

In addition to the stand-alone assessment component, ongoing assessments are embedded into each Session. Use them to guide your formative observation of students' developing knowledge of both content and mathematical practices.

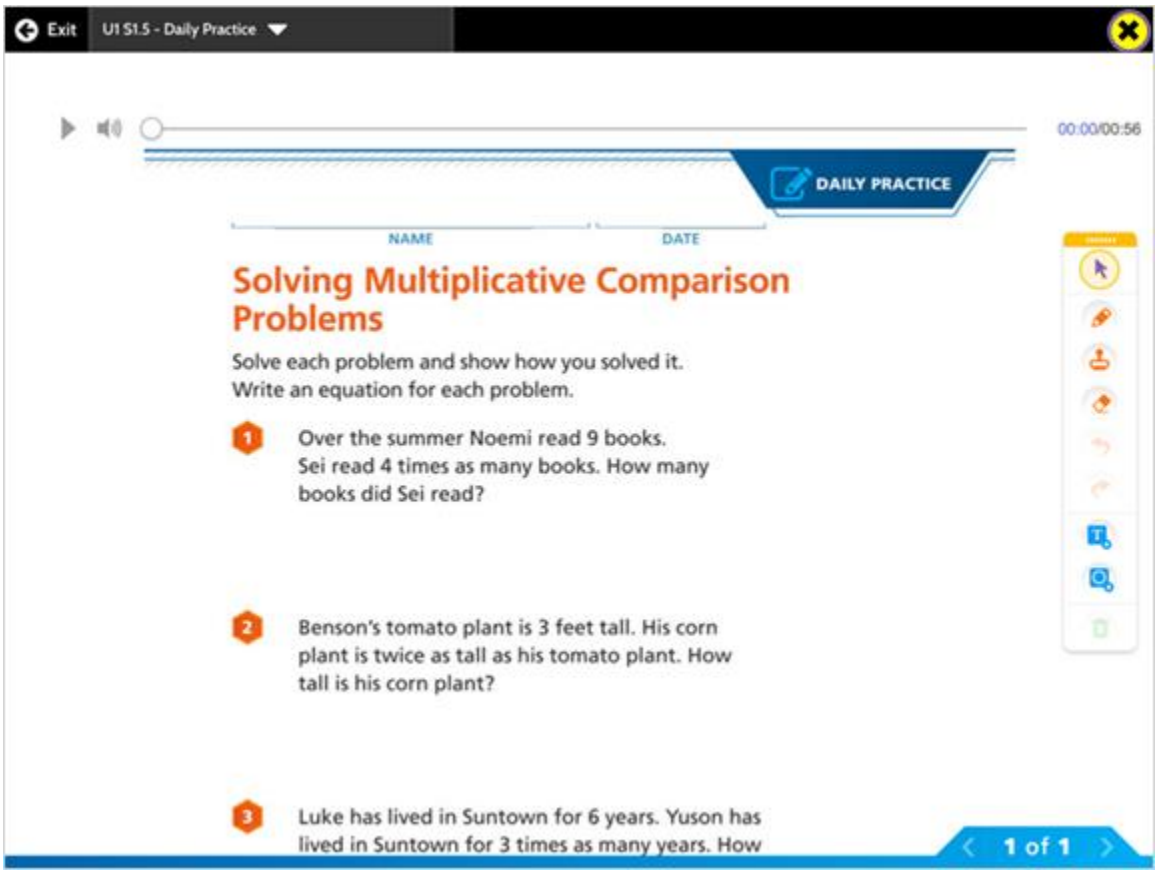
Session Follow-Up



Each Session ends with a Session Follow-Up: Review and Practice. These reinforce current content or review previous content.

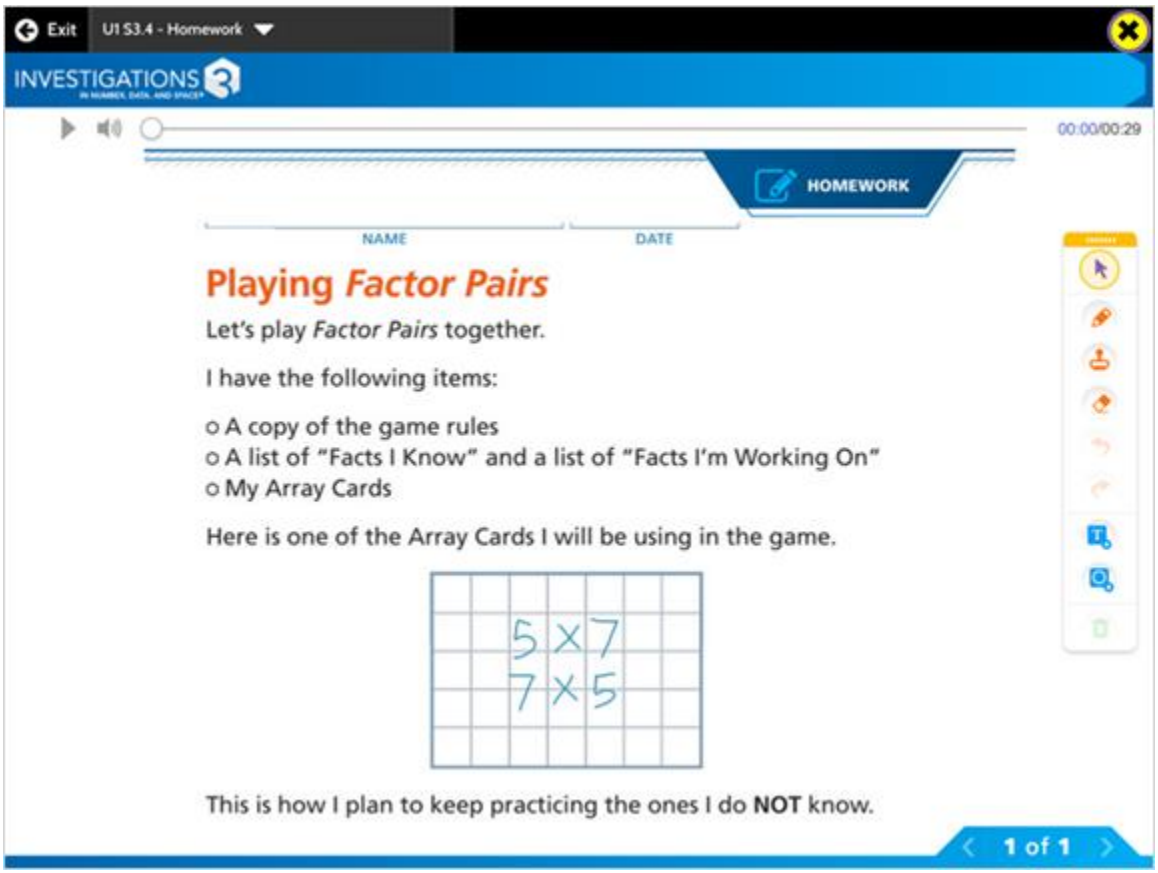
You may provide time for Session Follow-Ups outside of your regular math time or assign them as homework.

Practice



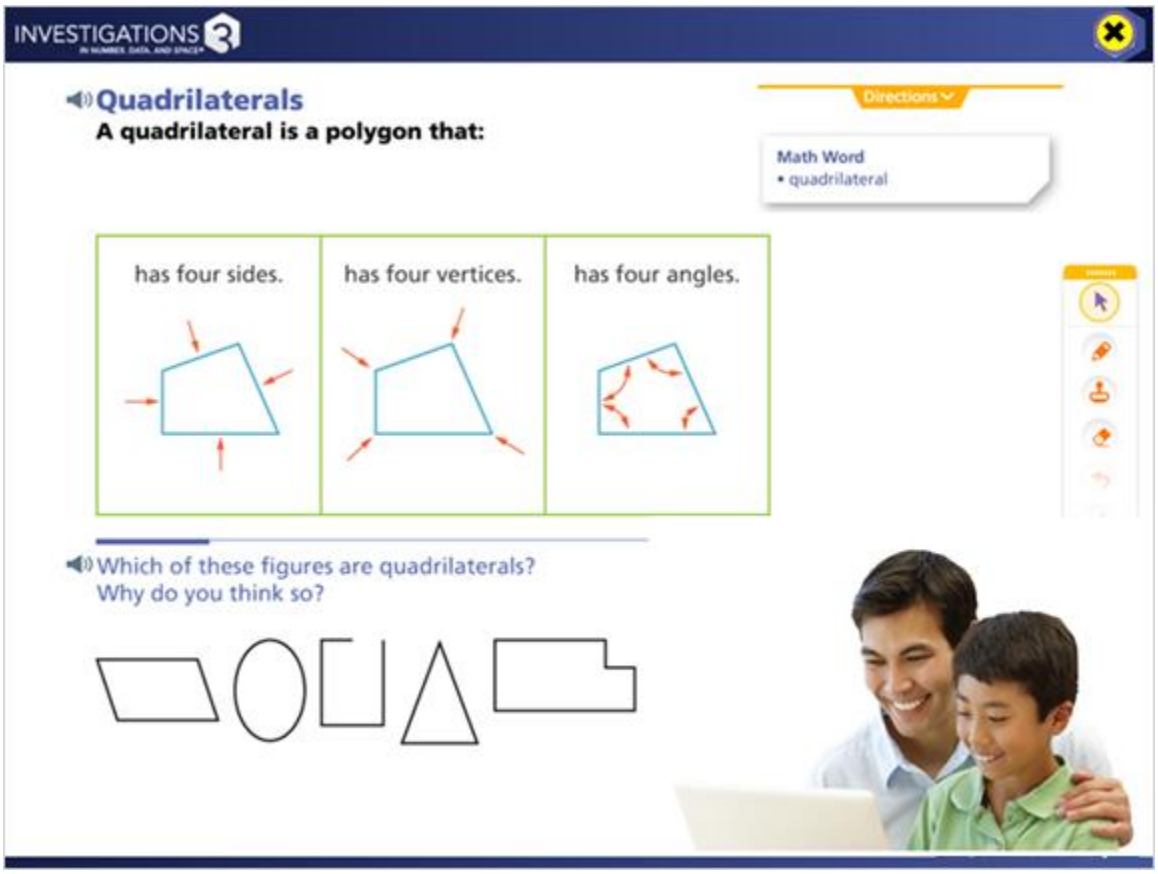
Practice reinforces content in the current unit.

Homework



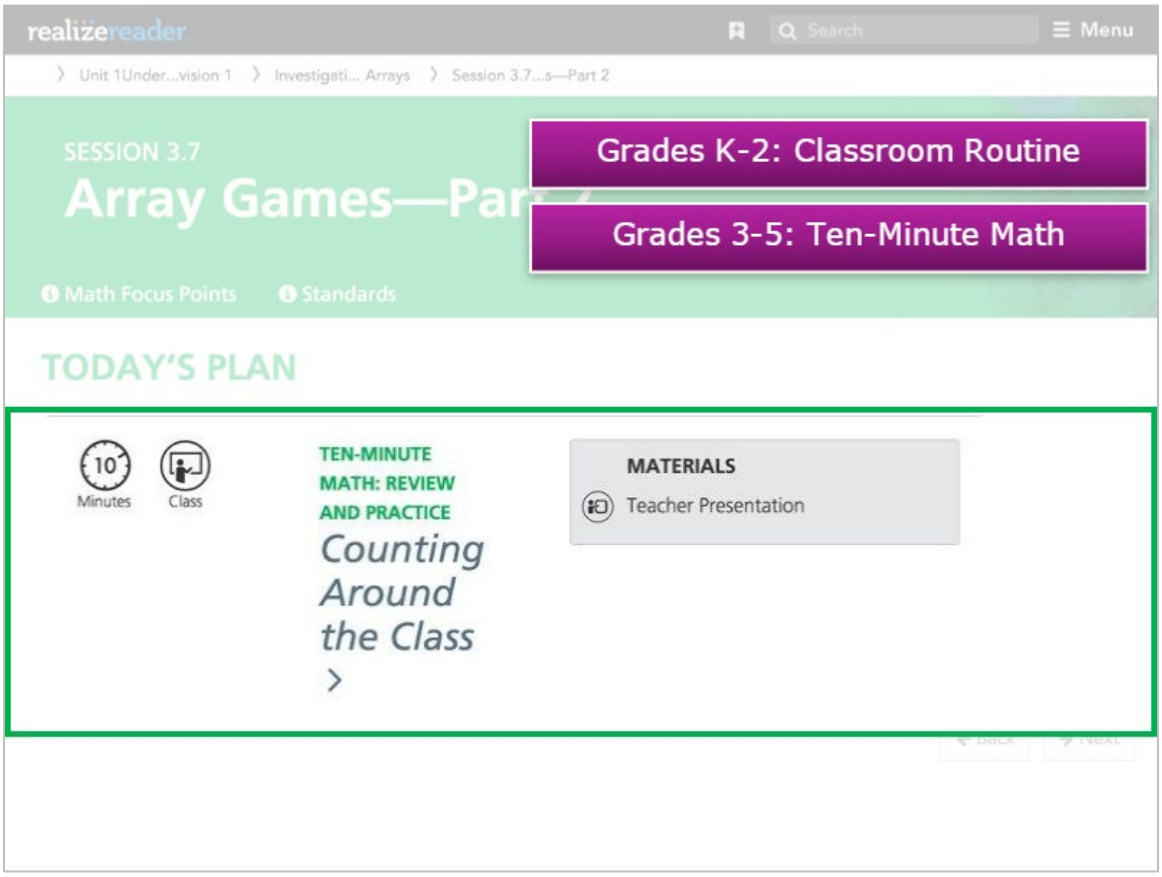
Homework reinforces the work done in class, but may also review previous content or prepare students for an upcoming activity.

Math Words



Math Words and Ideas is a digital resource that summarizes and illustrates important math words and concepts for each grade. It allows students to revisit the key mathematical concepts they work with throughout the year, in school and at home.

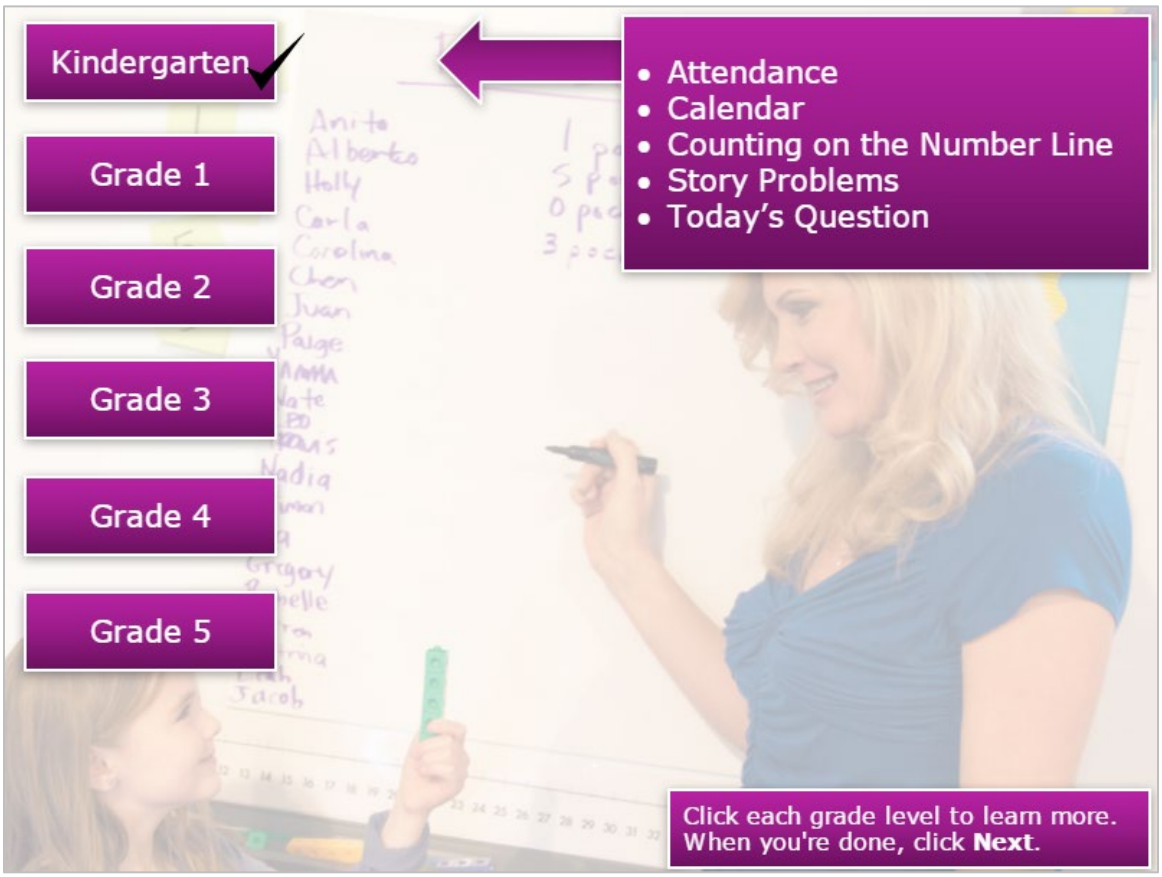
Ten-Minute Math and Classroom Routines



In addition to the math session and Session Follow-up, *Investigations 3* provides a critical component for ongoing skill-building, practice, and review. In Grades K through 2, this is called a Classroom Routine. In Grades 3 through 5, it is known as Ten-Minute Math.

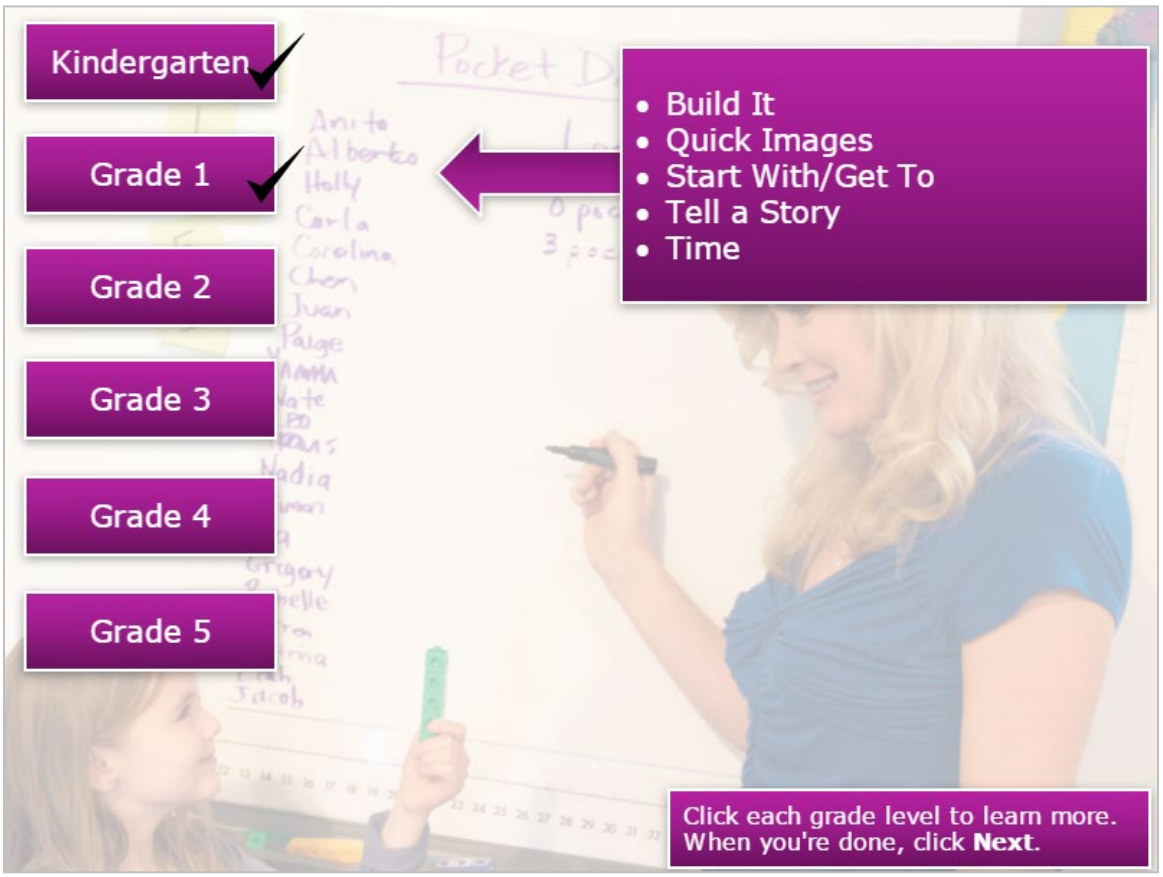
These short, 10 to 15-minute activities provide daily practice and review that support the in-depth work of each curriculum unit. Each routine is introduced as a Session activity and will then be used outside the math session. Now let's review the routines by grade level.

Kindergarten



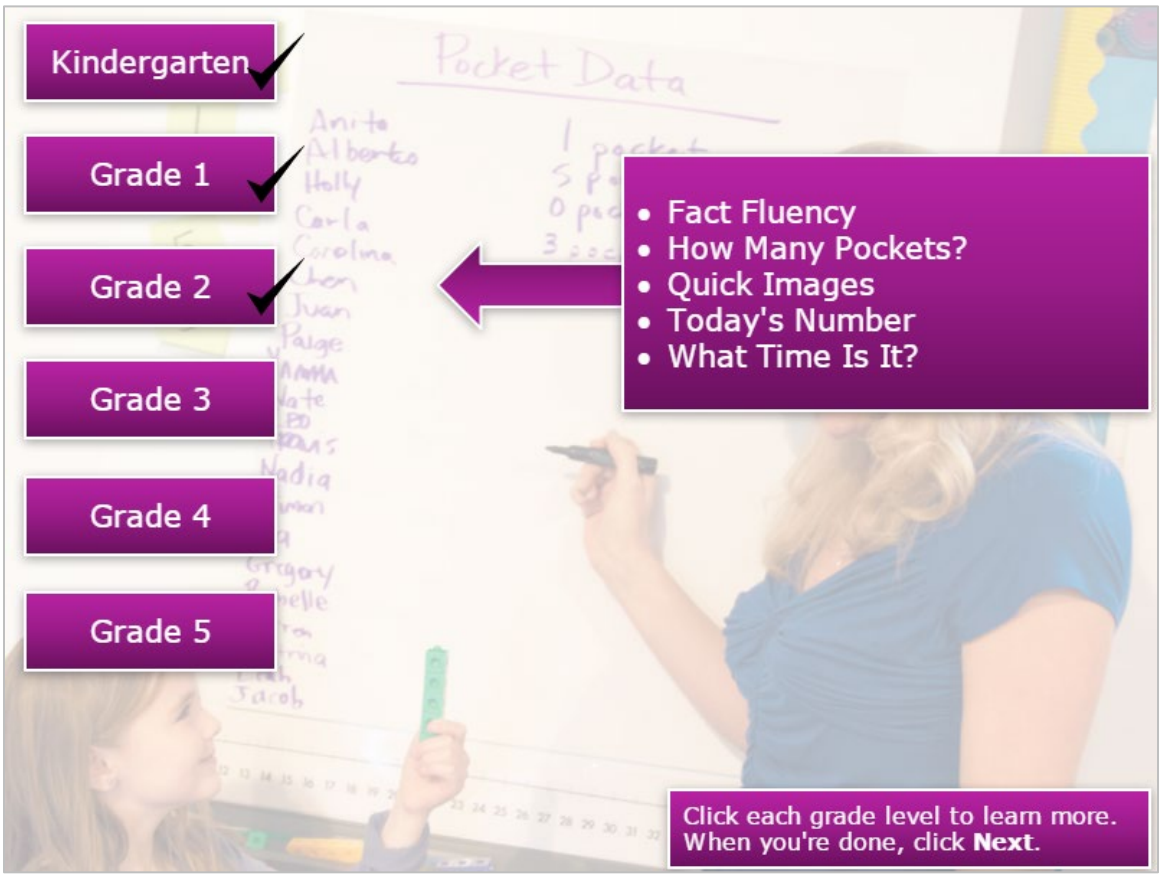
- Attendance
- Calendar
- Counting on the Number Line
- Story Problems
- Today's Question

Grade 1



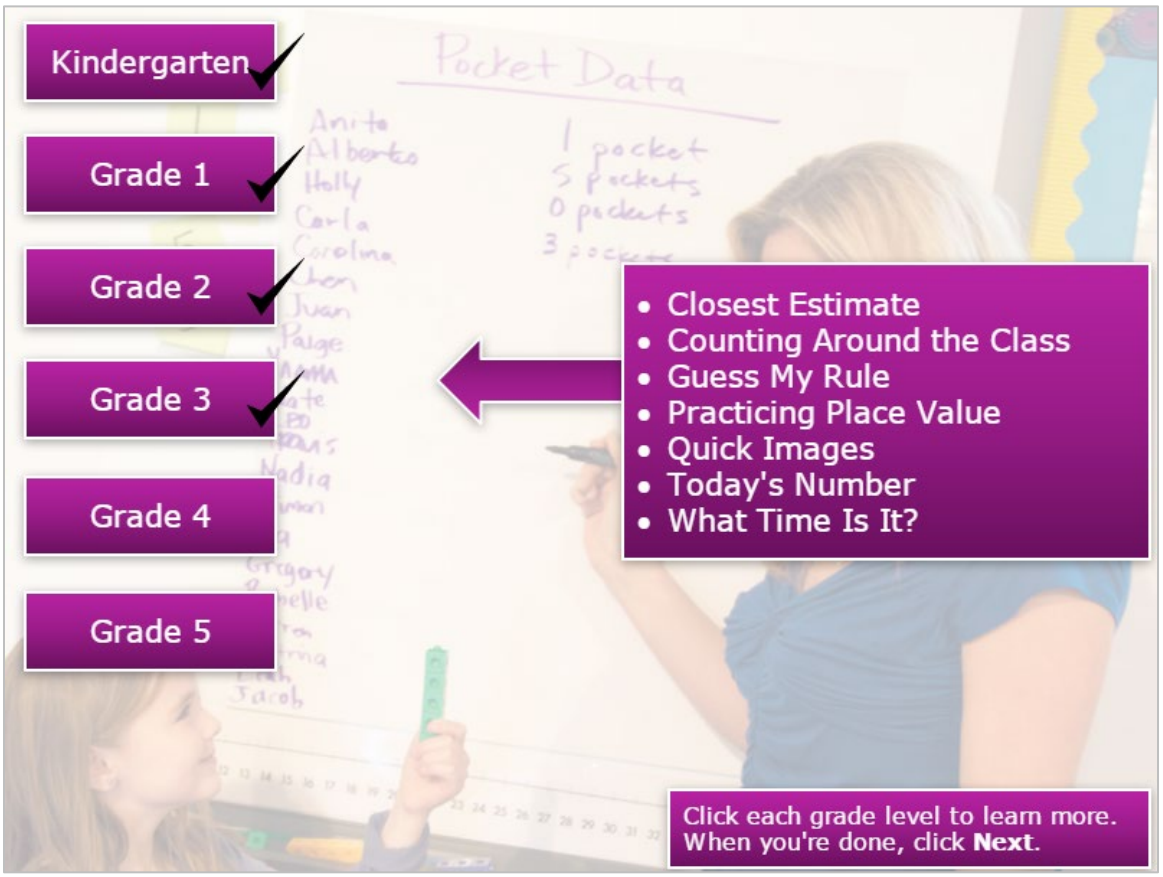
- Build It
- Quick Images
- Start With/Get To
- Tell a Story
- Time

Grade 2



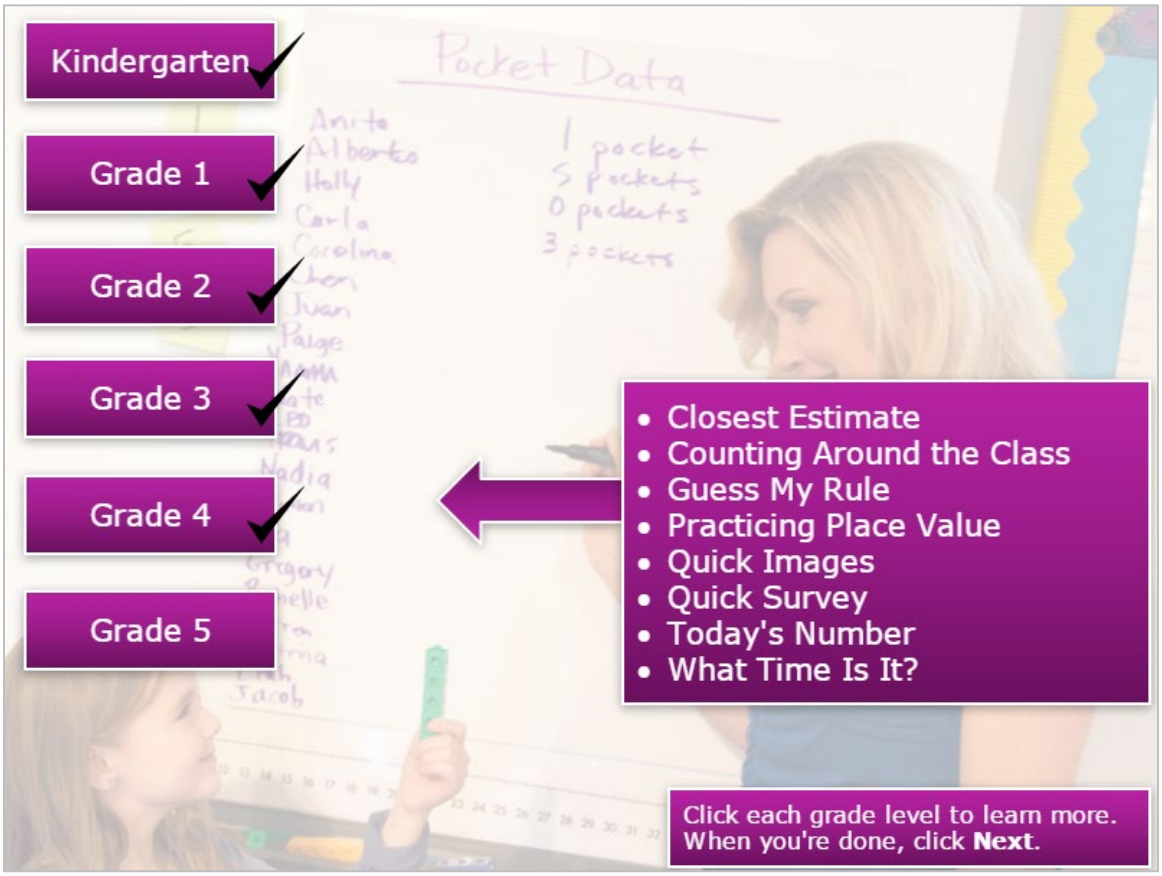
- Fact Fluency
- How Many Pockets?
- Quick Images
- Today’s Number
- What Time Is It?

Grade 3



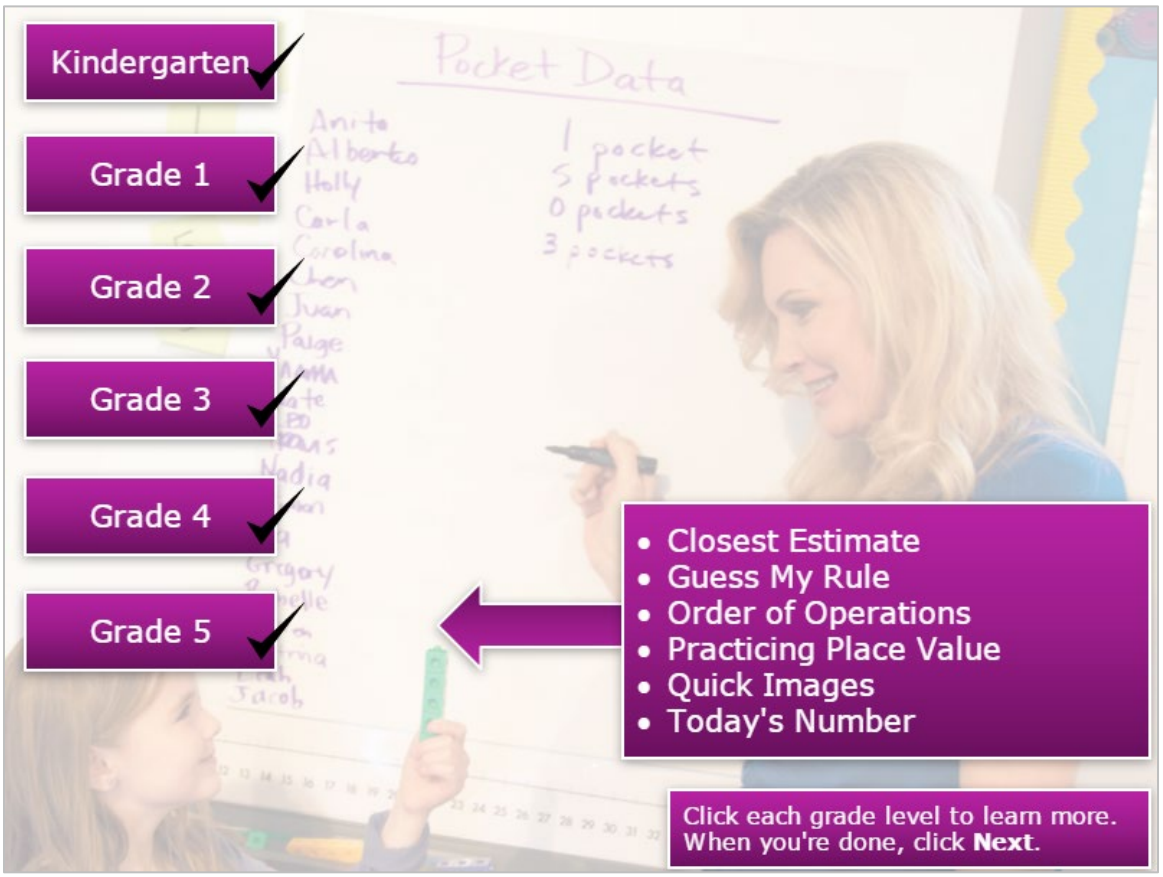
- Closest Estimate
- Counting Around the Class
- Guess My Rule
- Practicing Place Value
- Quick Images
- Today’s Number
- What Time Is It?

Grade 4



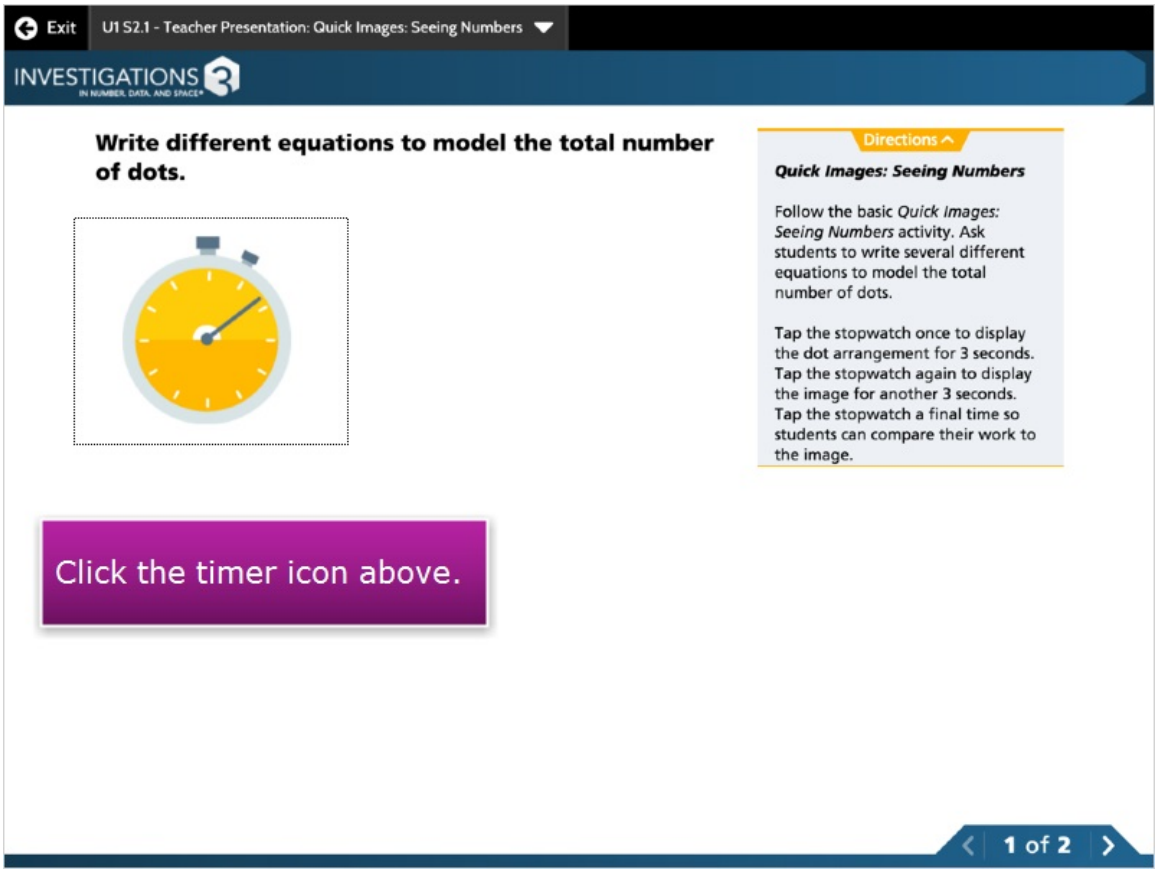
- Closest Estimate
- Counting Around the Class
- Guess My Rule
- Practicing Place Value
- Quick Images
- Quick Survey
- Today’s Number
- What Time Is It?

Grade 5



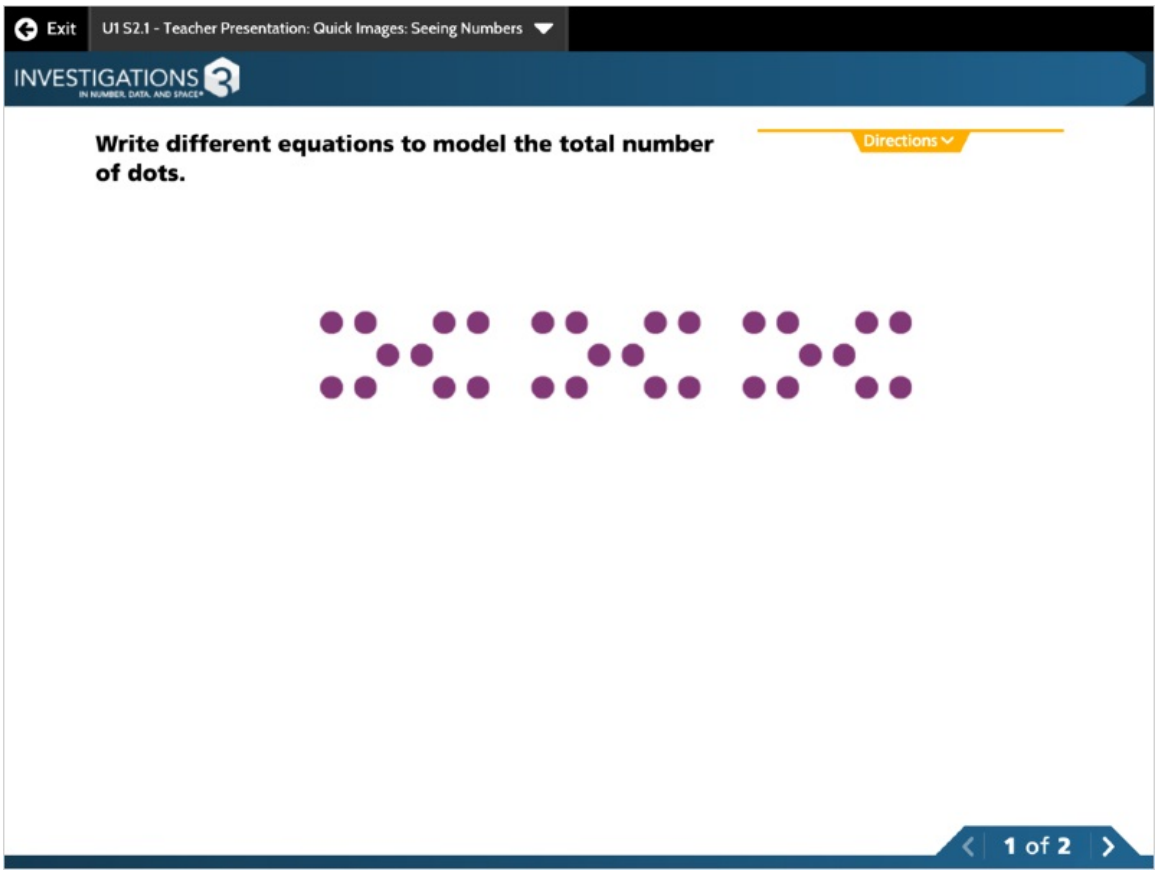
- Closest Estimate
- Guess My Rule
- Order of Operations
- Practicing Place Value,
- Quick Images
- Today’s Number

Quick Images Demonstration

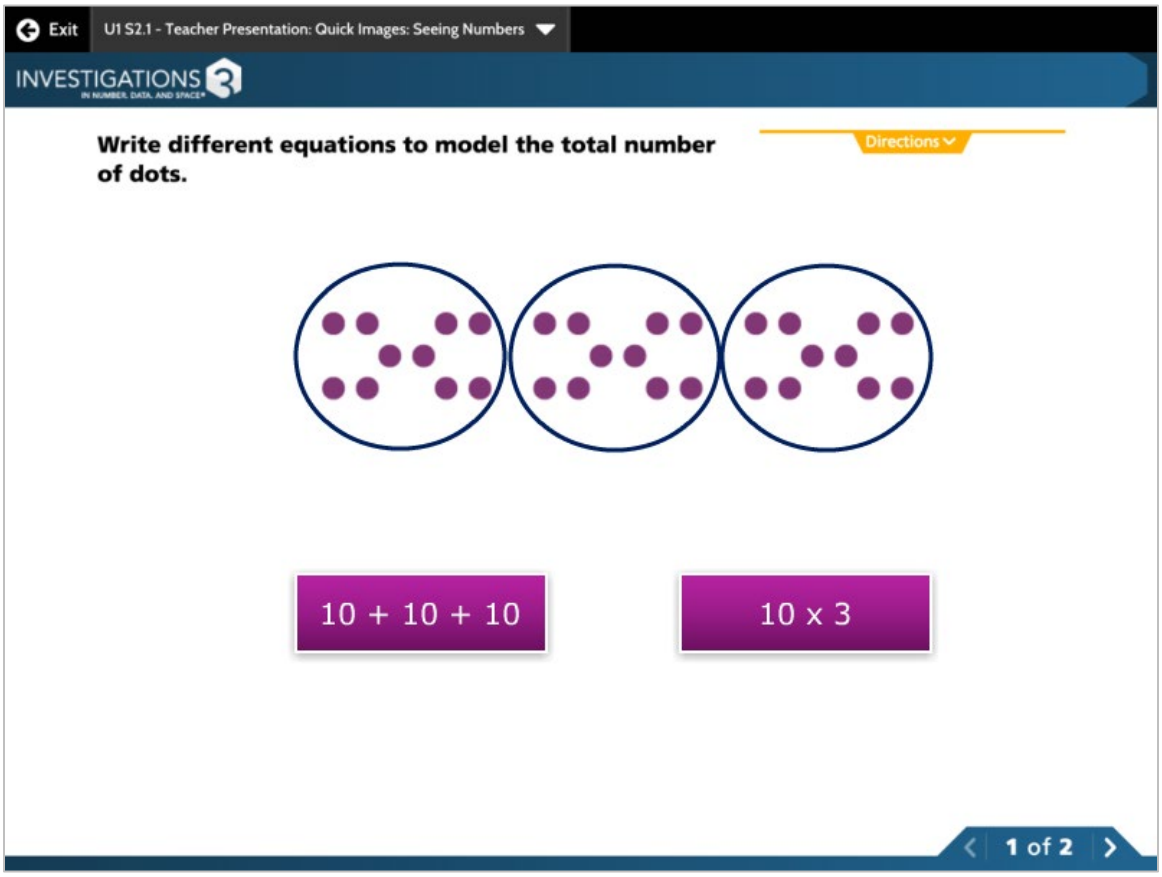


Some routines are used at more than one grade level. Let's look at the Quick Images routine, which is used in Grades 1 through 5.

Quick Images



Why Routines?



Ten-Minute Math and Classroom Routines support students' understanding and retention of key mathematical ideas. The routines reinforce the work of previous units and help students to develop strategies for mental computation and problem solving.

Routines are used outside your regular math session. For instance, you could conduct your routines during morning meeting, just before or after lunch or recess, or at the beginning or end of the day.

Closing

In this tutorial, we reviewed the different components of the math day. Thank you for joining me for this tutorial!

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