Differentiation Resources
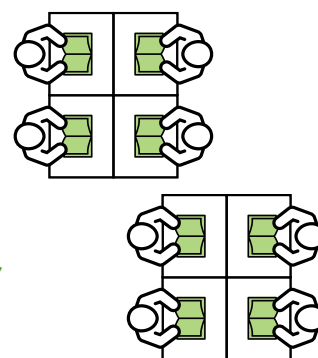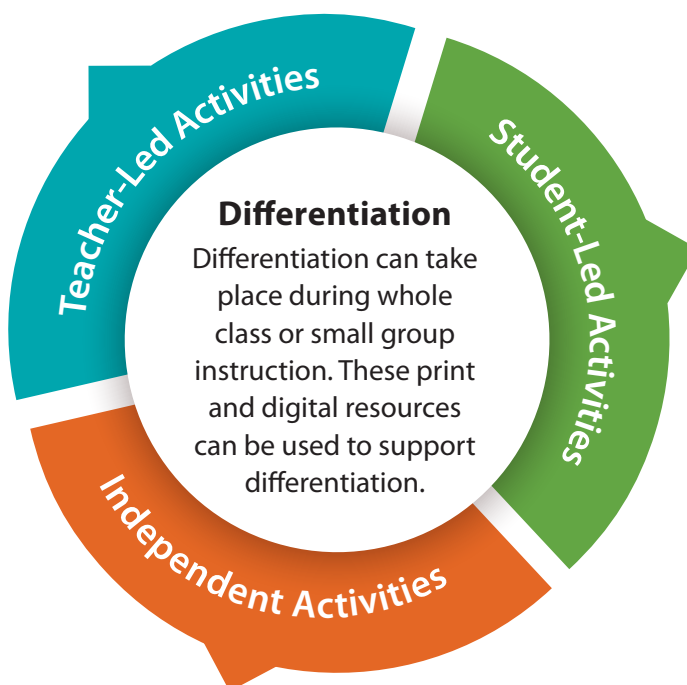
Educators using *i-Ready Classroom Mathematics* may decide to differentiate during instruction to support students' learning needs. Use the information below to better understand the differentiation opportunities available when using this program.

Teacher-Led Activity Options

- Hands-On Activitites and Visual Models
- Deepen Understanding
- Challenge Activities
- Tools for Instruction
- Prerequisite Lessons*

Teacher-Led Activities

Student-Led Activities

Independent Activities

Differentiation

Differentiation can take place during whole class or small group instruction. These print and digital resources can be used to support differentiation.

Student-Led Activity Options

- Math Center Activities
- Enrichment Activities
- Vocabulary Review
- Unit Games (Grades 6–8)

Independent Activity Options

- Practice Pages
- Fluency and Skills Practice
- Learning Games
- Unit Review
- Cumulative Practice
- Assignable Interactive Practice (Grades 6–8)
- Personalized Instruction** (Grades 6–8)

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**Optional Add-on

i-Ready Classroom Mathematics

Teacher-Led Activities

Use these resources when working with a small group of students.

Hands-On Activities and Visual Models

PURPOSE:
Activities to use with students who are approaching proficiency and would benefit from using physical manipulatives or visuals

WHEN:
After the Connect It or Model It as outlined in the Teacher's Guide

WHERE:
Embedded in each Explore and Develop Session: Teacher's Guide

Visual Model
Use a graph to represent solutions to an equation in two variables.

If students are unsure about how a graph represents solutions of an equation in two variables, then use this activity to help them make a table of values and graph a linear equation.

Materials For each student: graph paper, ruler
- Have students make a table of values to show solutions to $y = -5x + 25$.
- Have students draw and label an x- and y-axis on their graph paper. Prompt students to consider what scale to use to represent their table of values on a coordinate plane.
- Have students use their table of values to plot ordered pairs. Ask: *What does each ordered pair you plotted represent?* [One solution to the equation $y = -5x + 25$]
- Ask: *x and y are variables. What does this mean for the solutions of equations in two variables, like $y = -5x + 25$?* [A solution to an equation in two variables is a value of x and a value of y that together make the equation true.] Ask: *How can you represent all the solutions to the equation?* [Draw a line through the points.]

Deepen Understanding

PURPOSE:
Activities to use with students who can be challenged to think deeply about the mathematics they are learning

WHEN:
During Discuss It or Connect It as outlined in the Teacher's Guide

WHERE:
Embedded in each Develop Session: Teacher's Guide

Deepen Understanding
Using Structure to Understand the Graphs and Slopes of Vertical and Horizontal Lines

Guide students to connect the graphs of vertical and horizontal lines to slope.

ASK *What does the graph of $x = 5$ look like? What does $x = 5$ mean?*

LISTEN FOR The graph is a vertical line through (5, 0). Every value where x is 5 is on the line, so any point on the line can be written as (5, y).

ASK *What does the graph of $y = 5$ look like? What does $y = 5$ mean?*

LISTEN FOR The graph is a horizontal line through (0, 5). Every value where y is 5 is on the line, so any point on the line can be written as (x, 5).

ASK *What is the slope of a horizontal line? What is the slope of a vertical line?*

LISTEN FOR For any horizontal line, the change in y is 0. The change in x is any number: $\frac{0}{x} = 0$. For any vertical line, the change in y is any number. The change in x is 0: $\frac{y}{0} =$ undefined.

Challenge Activities

PURPOSE:
Activities to use with students who can be challenged beyond proficiency of the learning targets for the lesson

WHEN:
Refine sessions during group time

WHERE:
Embedded in each Refine session: Teacher's Guide

EXTEND

Challenge
Solve multi-step unit rate problems.

Students extending beyond proficiency will benefit from solving multi-step problems involving complex fractions.

- Have students work with a partner to solve this problem: *A rocket travels $\frac{90}{7}$ kilometers on $\frac{2}{5}$ liter of hydrogen fuel. How far will it travel on 14 liters of hydrogen?*
- Students may find the unit rate by dividing $\frac{90}{7}$ kilometers by $\frac{2}{5}$ liter, and then multiplying the unit rate by 14 to find the solution: 450 kilometers.
- Repeat, this time with partners suggesting other values for the quantities in the problem.

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Prerequisite Lessons*

PURPOSE:
Use with students based on identified needs from the Prerequisites report

WHEN:
Before lessons as needed

WHERE:
Each Lesson: Teacher's Guide

Tools for Instruction

PURPOSE:
Targeted activities to use with students based on assessment results

WHEN:
After a lesson quiz or comprehension check

WHERE:
Each Lesson: Teacher's Guide

Teacher Toolbox

Whole Class Instruction			Small Group Differentiation			
Teach		**Assess**	**Prepare**	**Reteach**	**Reinforce**	**Extend**
Instruction & Practice	Interactive Tutorials	Lesson Quizzes & Unit Assessments	Prerequisite Lessons	Tools for Instruction	Math Center Activities	Enrichment Activities
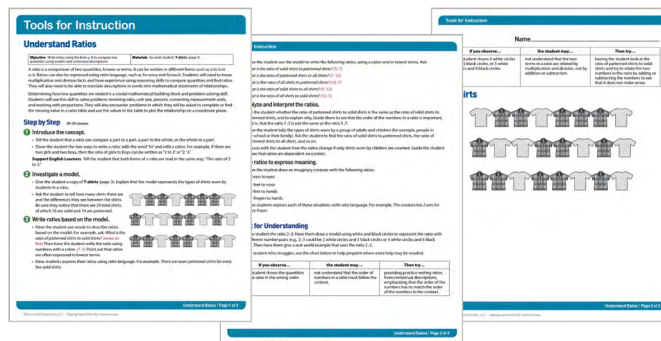
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Student-Led/Partner Activities

Use these resources when students are working with partners or in small groups.
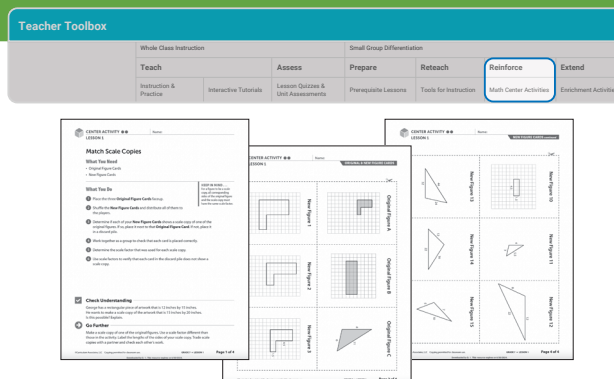
Math Center Activities

PURPOSE:
Activities for students to use collaboratively to reinforce the lesson skills

WHEN:
After a lesson quiz or comprehension check

WHERE:
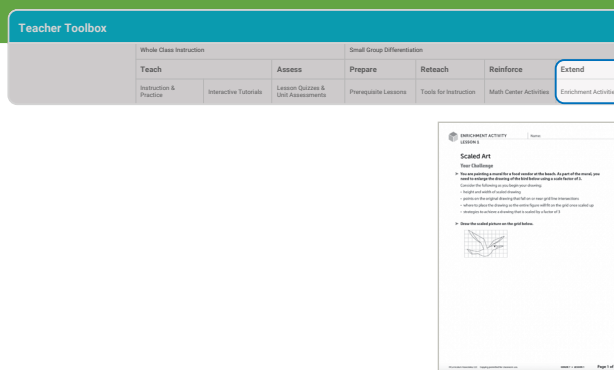Each Lesson: Teacher Toolbox

Enrichment Activities

PURPOSE:
Activities provide an additional challenge for students who have achieved proficiency

WHEN:
After a lesson quiz or comprehension check

WHERE:
Each Lesson: Teacher Toolbox

Vocabulary Review

PURPOSE:
To provide students an opportunity to develop academic and math vocabulary and use the vocabulary to complete problems

WHEN:
In preparation for a unit assessment

WHERE:
End of Unit: Teacher's Guide and Student Worktext
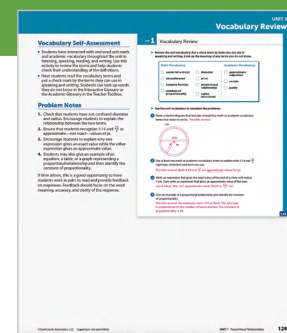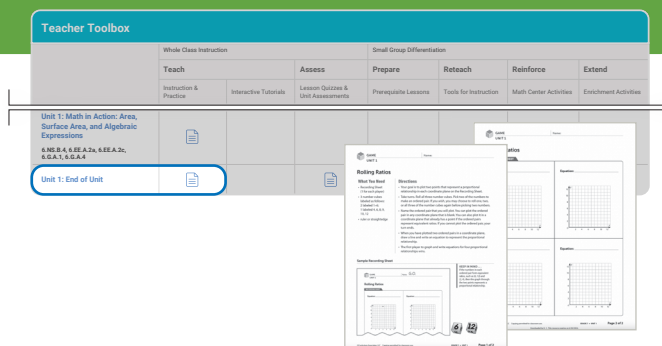
Unit Games (Grades 6–8)

PURPOSE:
Games designed to review and reinforce concepts learned during a unit

WHEN:
In preparation for a unit assessment

WHERE:
End of Unit: Teacher Toolbox

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Independent Activities

Use these resources when students are working individually.

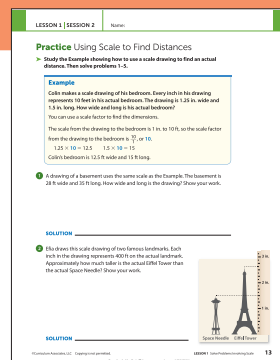## Practice Pages

PURPOSE:
To provide students opportunities to solidify conceptual understanding and build procedural fluency

WHEN:
After Explore and Develop Sessions (Grades 6–8 and Algebra 1) and Refine Sessions (Algebra 1)

WHERE:
End of Session: Teacher's Guide and Student Worktext
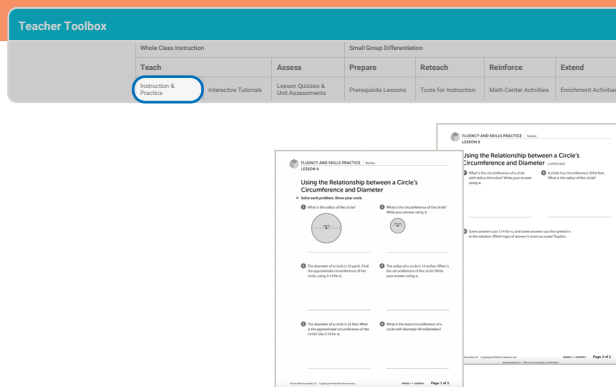
Fluency and Skills Practice

PURPOSE:
Use for target practice to build mathematical skills

WHEN:
After Explore sessions for Algebra 1 and after Develop sessions for Grades 6–8 and Algebra 1

WHERE:
Explore (Algebra 1) or Develop (Grades 6–8 and Algebra 1) sessions: Teacher Toolbox

Learning Games

PURPOSE:
Use to engage students in math fluency practice

WHEN:
Anytime

WHERE:
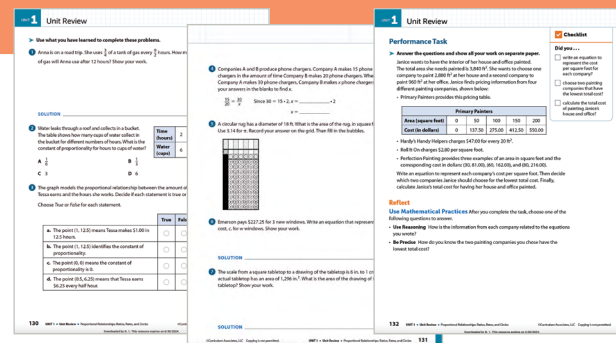Student Dashboard

Unit Review

PURPOSE:
Practice problems to reinforce unit learning objectives

WHEN TO USE:
Before the unit assessment

WHERE:
End of Unit: Teacher's Guide and Student Worktext

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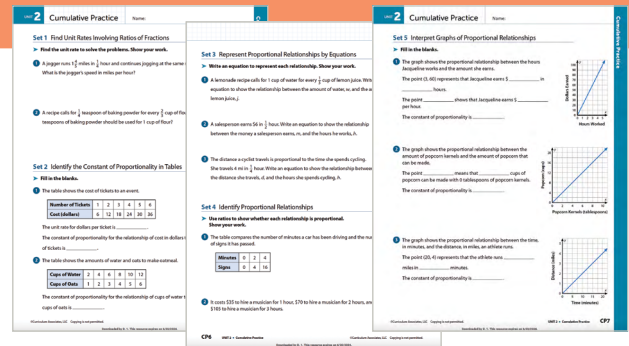## Cumulative Practice

PURPOSE:
Spiral review of key ideas to revisit previous learning and deepen understanding

WHEN:
Anytime during the unit

WHERE:
At the end of each volume: Teacher's Guide and Student Worktext

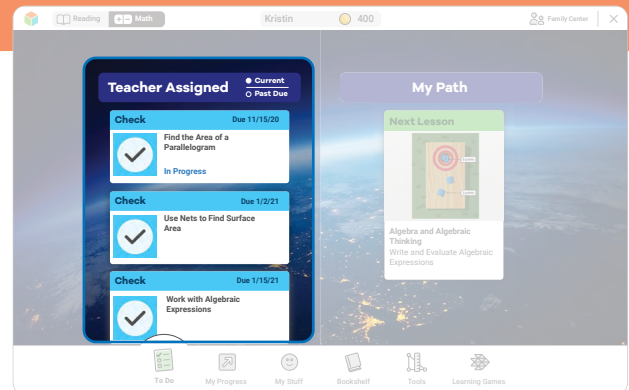
Assignable Digital Interactive Practice*

PURPOSE:
Digital practice that reinforces students' understanding by providing feedback

WHEN TO USE:
Anytime

WHERE:
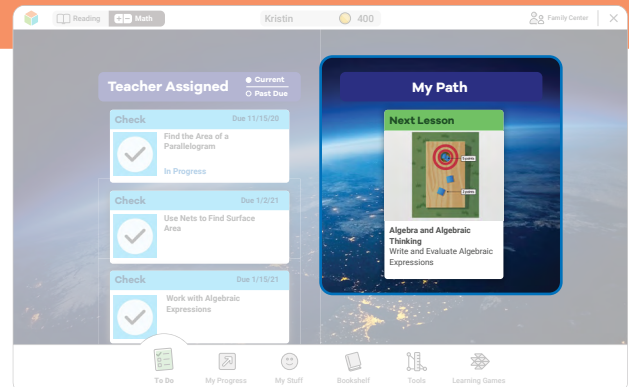Student Dashboard

Personalized Instruction** (Grades 6–8)

PURPOSE:
Digital practice that provides instruction based on targeted skills

WHEN TO USE:
Anytime

WHERE:
Student Dashboard