## **PROGRAM OVERVIEW**



## Grades K-8

## High-Quality, Research-Based Supplemental Instruction | Practice | Assessment



# **Results That Matter**

*Ready Mathematics* helps students meet high expectations and ensures all students are on a path toward success.



# High-Quality Resources You Can Trust

Say goodbye to wasting time searching online for random activities to supplement your curriculum. With *Ready Mathematics*, educators are supported with a supplemental program that received top ratings from EdReports, an independent nonprofit that delivers evidence-based reviews of instructional materials.

After an extensive review by expert educators, *Ready Mathematics* met all criteria at every grade level with all-green ratings across EdReports' three gateways.



# Make Mathematics Meaningful for Students and Manageable for Teachers

Transform your students into active, real-world problem solvers by supplementing your core mathematics curriculum with *Ready Mathematics*' high-quality, research-based materials.

## How can Ready Mathematics supplement your existing curriculum?

Fully Prepare Students for the Rigor of State Assessments	<u>4</u>
Engage All Students with Activities and Differentiation Resources	<u>6</u>
Provide Practice for Conceptual Understanding, Fluency, and Applic	ation <u>8</u>
Simplify Planning with Embedded Guidance and Support	<u>10</u>
Get More with <i>i-Ready</i> and Teacher Toolbox	<u>12</u>
Program Components	<u>14</u>



## Fully Prepare Students for the Rigor of State Assessments

Ensure your students have deep conceptual understanding of state standards by adding rigor to your core mathematics curriculum. *Ready Mathematics* lessons deliver everything you need to facilitate meaningful mathematical discourse in a manageable way that develops students' problem-solving abilities.





## Engage All Students with Activities and Differentiation Resources

Whether you need a replacement lesson or are just looking for a few quality tasks, the content in *Ready Mathematics* is designed with the supports you need to engage all learners.



				_	
Lesson 2 Solve One-Step Word Problems	Lesson 2	& Independent Practice			
Andependent Practice	Practice	Solving Different	Kinds of Word Problems		
- independent r lactice					
	Solve the	e problems.			
At A Glance	1 Rick h	as 13 marbles. 4 marbles a hite How many white mark	re blue. The rest		
	Fill in	the blanks. Then circle the l	etter for all the		
Students use addition and subtraction to solve	equat	tions that can be used to so	lve the problem.		
a mathematics test.	(A) 13	-4= <u> </u>	+ 4 =		
	(B) 13	- <u> </u>	+ = 13		
Solutions	2 There	are 5 cows in the barn. The	re are 8 fewer		
Solution	cows	in the barn than in the field	How many cows		
A, B, and D; 13 is the total, so equations	are in	the field? Circle the correct	answer.		
that show adding 9 and 4 or subtracting 9	A 3 B 0				Ouick Check and Remediation
or 4 from 13 can be used to solve the problem, DOK 2	<b>B</b> °	013			Quick check and hemediation
2 Solution	3 Jin ho	as 9 markers. He has 5 more	markers than		provides opportunities to monitor
D; Since there are 8 fewer cows in the	penci	Is. How many pencils does	in have?		
barn than in the field, there are 8 more in	be us	ed to solve the problem.	ation can		student understanding and ways to
the field, $8 + 5 = 13$ . DOK 2	<b>a.</b> 9 -	- 5 = 4 Yes No			address common errors
a. Yes: b. No: c. No: d. Yes: 9 is the total, so	b. 9 -	+ 5 = 14 Yes No			address common enors.
equations that show adding 5 and 4 or	<b>c.</b> 14	- 5 = 9 Yes No			
subtracting 5 or 4 from 9 can be used to	<b>d.</b> 5 +	+ 4 = 9 Yes No			
	16				
Quick Check and Remediation					
There were 11 children riding bikes. Some					
children rode home. Now there are	If the error is	Students may	To remediate		
the number of children who rode home. [4]	10	have added the	Provide students with counters to act out the		
For students who are still struggling, use the	10	given numbers.	children go home, subtraction is involved.		
chart to guide remediation.			Help students use a counting back strategy		
<ul> <li>After providing remediation, check students' understanding using the following problem:</li> </ul>		have subtracted	or fact families. Since 11 – = 7,		
Sue finds 13 socks under her bed. 5 socks	5	incorrectly.	7 + = 11. Encourage students to think of making a ten to help solve mentally.		
are blue. The rest are black. How many black			(7 + 3 = 10 and one more is 11, so 7 + 4 = 11.)		
socks does she find? [8]			As you read each sentence in the problem,		
		have subtracted	have students describe what the sentence		
	any other number	misrepresented	Write an equation for the problem and		
		the problem.	compare it with the equation the student wrote. Check for computational accuracy.		
		I			
16 Lesson 2 Solve One-Step Word Problems			©Curriculum Associates, LLC Copying is not permitted		

With the <b>optional Teacher</b>
Toolbox add-on, you have a
wealth of resources available
for reteaching, reinforcement,
and extension.

ti-Ready						×	
Teacher Toolbox	D 140	ort for Tutoring and At-Home Learning					
Program Ready • Program Implementation	Subject Grades Classro	K 1 2 3 4 om Resources Classroom I	5 6 7 8 Resources (Spanish)				
	Whole Class				Small Group Differentiation		
	Instruct Interactive Tutorials	Ready Instruction Book	Practice Practice & Problem Solving Book	Assess Lesson Quizzes, Unit Assessments	Teacher-led Activities	Student-led Activities Math Center Activities	
Unit 1: Counting and Cardinality, Numbers 1-5							
Unit 1: Unit Opener							
Lesson 0: Lessons for the First Five Days							
Lesson 1: Understand Counting							
Lesson 2: Count 1, 2, and 3	Ť						
Lesson 3: Count 4	ő						
Lesson 4: Count 5	<i>t</i> o						
Lesson S: Compare Within S	Ť						
Lesson 6: Make 3, 4, and 5							
			2	2			
		0					

See more about the differentiation resources available on Teacher Toolbox on <u>page 12</u>.

## Provide Practice for Conceptual Understanding, Fluency, and Application

Set students up for success with robust practice that matches both the rigor and item types of state assessments. *Ready Mathematics* includes practice opportunities for conceptual understanding, procedural fluency, and application for use in class, after school, or at home.



#### Unit 3 Interim Assessment continued State assessment practice mirrors the type and format of Performance Task state assessments to prepare Answer the questions and show all your work on separate paper. students for high-stakes testing Rocky's parents are buying him a cell phone. His parents told him that they could budget only \$1,000 this year for his cell phone and calling plan. Rocky wants to get the brand new J-phone and found three and build their confidence. wireless companies that carry that phone. The companies each have different plans that include unlimited talk, text, and data. Neighbors Mobile charges \$180 for the J-phone and \$80 per month for the calling plan. V-Cell charges \$195 for the J-phone and \$70 per month for the calling plan. BG&G Mobile charges the most for the Assessment 1 J-phone at \$270, but the calling plan is only \$60 per month. Which plan can Rocky's parents afford with a budget of \$1,000? Write a Answer questions 1–40. Answer questions outlined in red in your test book. Answer all other questions on the Answer Form. summary for Rocky to give to his parents to explain his choice. Make sure you show your calculations and explain what they mean. Reflect Reflect on Mathematical Practices After you complete the task, choose one of the 1 Which expressions can be used to find the area of the rectangle? Mark all that apply. following questions to answer · Model How did you decide whether to write equations or inequalities to represent the cost of the different plans? Part A · Reason Mathematically How could Rocky convince his parents that his choice will be under the budget they've set?

A 3+3+3 4 + 4 + 4**Performance tasks C** 3 × 4  $D 4 \times 3$ integrate concepts and skills from multiple standards to give students practice with solving multistep problems. **A** 6+6+6+6+6+6 2 + 2 + 2 + 2 + 2 + 2 + 2C 6 + 2 **D** 6 × 2 1 Go On es, LLC Copying is not p Player B Name Player A Name Digits: Digits: Greatest Sum Greatest Difference What you need: Recording Sheet. 2. 2 1 number cube (1-6) Directions Both players roll the number cube four times and record the four numbers at the top of the Recording Sheet. Players use these same numbers for Rounds 1 through 4. Digit<sub>at</sub> Z II 🕻 I Digite 5 3 1 9 In each round the players use these four digits to create two fractions. Unit Games reinforce 2+G-62 4+1-64 5+#-6<u>1</u> In Round 1, the player with the greatest sum wins the round. Use the digits to make two fractions, and add student learning in an engaging, novel way. them. Record the addition and sum on the Recording Sheet. In Round 2, the player with the greatest difference wins the round. Make two fractions and subtract one from the other. Record the The greater the Å tes, LLC fractions, the

greater the sum. But what does it mean to have the greatest differen --?

181

difference

Unit 2 N

 In Round 3, the player who makes the least sum • In Round 4, the player who makes the least

 In Round 5, the players decide together whether to add or subtract and whether to try for the greatest or least result. After deciding, players both roll 4 new numbers to use in the final

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60

difference wins

round.

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В

в

Part B

Checklist

Write inequalities to represent the calling plans?

Use the inequalities

Choose a plan and

to solve the problem?

support your choice?

Did You . . .

# Simplify Planning with Embedded Guidance and Support

Create a predictable learning environment where students thrive with a program that's easy to deliver. *Ready Mathematics* includes the tools to build your own expertise and make an immediate and sustained impact on the classroom.



#### Introduction

#### At A Glance

multiplication and division are related to solve a division problem. Then students explore the use of fact families to find an unknown number in a multiplication or division equation.

Students use what they know about how

#### Step By Step

Work through Use What You Know as Tell students that this page explores a way to make learning division facts easier Remind students that multiplication and division are related. Write the equations " $3 \times 4 = 12$ " and " $12 \div 3 = 4$ " on the board. Help students to focus on the structure of Help students to focus on the structure of the two facts. Point out that in multiplication, you end with the total amount, after two factors are multiplied. In division, you begin with the total amount and divide it into equal shares.

SMP TIP Use Structure Students are asked to look at the structure of multiplication and division equations to make sense of the relationship between the two operations. (SMP 7)

Have students read the marble problem at the top of the page.

Write the division equation " $24 \div 3 = \_$ " on the board. Ask students to think of the multiplication fact that multiplies a number by 3 to get 24. Point out the multiplication table and ask them to find the fact.

Mathematical Discourse 1 Ask student pairs to tell each other how they used multiplication facts to solve the division problem.

Lesson 6 Multiplication and Division Facts

Concept Extension 1

Concept Extension 1 Use sent sentence frames to rephra sion as multiplication.

 Point out that thinking of a related multiplication fact can make finding the missing number in a division equation easier. Write the equation "18 ÷ 3 = \_\_\_\_" on the board. Then write the sentence frame: "\_\_\_\_\_ times what number equals \_\_\_\_?"

Have students read the question, filling Have students read the question, filling in the blanks using numbers from the division equation. [3 times what number equals 18?] Instruct students to write the multiplication equation for it. [3 × \_\_\_\_\_ = 18] Have students identify the number that completes both equations. [6] Repeat the steps for  $24 \div 4 =$  and  $21 \div 3 =$ 

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► Mathematical Discourse 1 How can knowing a multiplication fact help you to find the missing number in a division fact? The same three numbers are used in related multiplication and division facts, so you look for the number that is in the multiplication fact, but

Lesson 6 Mintro **Multiplication and Division Fa** 

Use What You Know

Kenny has 24 marbles. He puts the same number of marbles into each of 3 bags. How many marbles are in each bag?

d. Multiplication facts for 3 are shown below

Write the fact for this problem.  $3 \times 8 = 24$ What number is 2 .

f. How many marbles are in each bag? \_\_\_\_\_8 g. How could you check your answer? Possible answer: I could start with 24 c

missing from the division fact.

positions in the multiplication division equations?

divide it into equal groups.

2 Why is the total amount in different

In multiplication, the total is the

result of combining equal groups. In division, you start with the total and

Write a division equation you need to solve to answer this of b. Think about finding the number of marbles in each bag as a multiplication problem How many equal groups are there? \_\_\_\_\_3

c. You don't know how many marbles are in each group. Write a multiplication equation that says 3 groups of  $\Box$  marbles is 24.  $3 \times \Box = 24$ 

You learned that multiplication and division are related. Look at this probler to see how multiplication can help you with division facts.

If I end up with 3 groups of 8, then I know my answer is correct.

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3 What does the table show? Students will recognize the types of shirts and s Encourage them to dig to recognize the differe between costs for print print. Also help them se of having all the inform organized in rows and c

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differences in costs.

helps the reader compa

#### Try It 17 Solution

Rina's recipe.; Students may simplify ratios to find the unit rate. Rina:  $\frac{2}{2^{\frac{1}{2}}} = 2 \div 2^{\frac{1}{2}} = \frac{4}{5};$ Jonah:  $\frac{2\frac{1}{4}}{3} = 2\frac{1}{4} \div 3 = \frac{3}{4}$ Each dozen of Rina's cookies contains 4/5 cup sugar. Each dozen of Jonah's

contains  $\frac{3}{4}$  cup of sugar. Rina's cookies use more sugar per dozen.  $\frac{4}{5}$  is greater than  $\frac{3}{4}$ . Error Alert Students who wrote Jonah

may have found the rate of dozens of cookies per cup of sugar.

Rina:  $\frac{2\frac{1}{2}}{2} = 1\frac{1}{4}$ ; Jonah:  $\frac{3}{2\frac{1}{4}} = 1\frac{1}{3}$  However,

that means Jonah's recipe has more cookies per cup of sugar, not more sugar per dozen cookies.

**Ready** Mathematics PRACTICE AND PROBLEM SOLVING Assign Practice and Problem Solving pages 91-92 after students have completed this section.

Lesson 9 Ratios Involving Complex Fractions

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**Teaching tips in every lesson**, such as EL Support, Error Alerts, Concept Extensions, and vocabulary strategies, highlight opportunities to monitor and provide scaffolded instruction to address the needs of diverse learners.

#### Concept Extension

Finding equal parts that are different shapes.

Materials: 3-square by 3-square sections of paper, 3 individual squares from the same squared paper, crayons or markers

- Draw a 3-row by 3-column square on the board to duplicate the squares the students have. Model shading the bottom two squares of the first column and the bottom square of the middle column, for a total of 3 shaded squares that form a right angle. Point out that this is one equal part. Direct students to place the 3 individual squares on top of their shaded squares. Check to see they have positioned these squares correctly and have them color the squares underneath all the same color.
- · Explain that equal parts for fractions means the parts are the same size; they do not have to be the same shape. Ask students to find as many equal parts of that same size as they can, using the 3 individual squares,
- and color each equal part a different color.
- Have students display their completed squares and discuss what they show. [Each of the 3 different colored parts of the large square are the same size even if their 3 squares are not next to each other.]

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English Language Learners

Embedded expert guidance,

support and suggested language

on teaching specific mathematics

skills. Great for paraprofessionals!

like Step by Step, provides

Discuss the phrase left over with students. Explain that it is just another way to say, "How much is left?" It means that you have something, and then some of it is used—or goes away—and what you still have remaining after that is what you have left or left over.

#### Mathematical Discourse

# Get More with *i-Ready* and Teacher Toolbox

Give every student a personalized learning experience. By combining the effective classroom instruction of *Ready Mathematics* with the intuitive data, online resources, and digital instruction of *i-Ready*, you can accelerate students' learning and drive growth.

cake. How many cakes did Alan make?
Total cups of flour $\leftarrow$ + + + + + + + + + + + + + + + + + + +
Type your answer in the box. cakes
Done →

The *i-Ready Assessment* suite offers a collection of assessments designed to measure student performance and provide educators with actionable data and insights to help students reach grade-level proficiency and beyond.

At the heart of the *i-Ready Assessment* suite is the adaptive *i-Ready Diagnostic*, which provides an individualized summary identifying students' strengths and where they may need additional support across the Grades K–12 continuum.

The **Prerequisites report** helps teachers address unfinished learning with time-saving resources like:

- 1. **Learning Progression:** Map the progression of standards going back more than two years.
- 2. On-the-Spot Teaching Tips and Pacing Guidance: Integrate prerequisite skills into grade-level content.
- 3. **Small Group Resources:** Target specific prerequisite skills with teacher-led, partner, and independent activities.





*i-Ready Personalized Instruction* uses insights from students' Diagnostic results to create a personalized path of engaging digital lessons. Students work through lessons on My Path at their own pace, or teachers can assign lessons to support students on their learning journey.

**Teacher Toolbox** helps teachers meet the needs of all students by providing digital access to all *Ready Mathematics* Grades K–8 resources for instruction, practice, assessment, and differentiation.

Teacher Toolbox 🕞 tagent für Taturing wal Az minie Laminie									
Program	Subject Gran	las K 1 2 3 4	5 6 7 8						
Program Implementation	Clas	Isroom Resources Classroom	Resources (Spanish)						
	Whole Case			Small Group Differentiation					
	lostout		Practice	Assess	Teacher-led Activities	Student-led Activities			
	Interactive Tatorials	Ready Instruction Book	Practice & Problem Solving Book	Lesson Quices, Unit Assessments	Soah For Instruction	Math Center Activities			
Unit 1: Counting and Cardinality, Numbers 1-5									
Crist II: Crist Openiar									
Lesson 0. Lessons for the First Pive Days									
Lesson 1: Understand Counting									
Lesson 2: Count 1, 2, and 3	6	•			6	•			
Lesson 3. Court 4	Ť.								
Lesson 4: Court 5	õ								
Lesson S: Compare Within S	õ								
Lesson 6: Make 3, 4, and 5									
			-	-					
				/					



# **Program Components**

# **Ready Mathematics K-8**

## Ready Matemáticas Available in Spanish!



## Instruction Books

Engage students and develop deep understanding with clear, thoughtful instruction.



## Practice and Problem Solving Books 🚥

Students can demonstrate their understanding through a wealth of practice options and opportunities.

For every lesson:

- For every unit:
- Family Letter
- Practice for each section
  U
- in Ready Instruction
- Unit Games
- Unit Practice
- Unit Performance Tasks
- Unit Vocabulary
- Fluency Practice Worksheets

## E/S = Available in English and Spanish

Digital versions of *Ready Mathematics* Instruction, Practice and Problem Solving, and Assessment books are available on the Teacher Toolbox.



Assessment Books 💷

Give students exposure to the same content, format, and rigor of highstakes tests with the program's cumulative assessments.

# **Optional Add-Ons**

## **Online Teacher Toolbox**

Quickly find additional research-based resources for instruction, practice, differentiation, and assessment to supplement your Grades K–8 mathematics curriculum—all in one convenient location.

- Presentation slides for the Think–Share–Compare routine
- Interactive Tutorials
- Ready Instruction Prerequisite Lesson PDFs
- Lesson Quiz PDFs
- Tools for Instruction PDFs us
- Unit/Mid-Unit Assessment PDFs 65
- Family Letters us

## *i-Ready Assessment* and Personalized Instruction

Empower student growth and success with one comprehensive system that uses the insights from the Diagnostic to create a personalized path of engaging online lessons and recommended instructional resources.

### i-Ready Success Central

Get on-demand access to implementation support and guidance included with your Teacher Toolbox or *i-Ready* purchase.

- Training videos
- Planning tools
- Implementation tips
- Discourse support





## **Manipulatives**

Ready Mathematics was built to work with common manipulatives that you likely already have in your classroom. However, you can add individual materials to your existing kits or purchase manipulative kits developed specifically for use with Ready Mathematics through hand2mind<sup>®</sup>.

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# **Ready** Mathematics

## **Explore More:**

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To see how other educators are maximizing their *Ready Mathematics* experience, follow us on social media!





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