Welcome to Ready® Mathematics

Ready Mathematics prepares students for mastery of the North Carolina Standard Course of Study through a balance of conceptual understanding, procedural skills, fluency, and application. Ready’s clear, thoughtful pedagogy and research-based instructional model supports a rich classroom environment in which mathematical reasoning, mathematical discourse, and a range of mathematical practices thrive.

Rigor that is reachable

- Uses real-world problem solving as instruction to develop deep conceptual understanding
- Presents multiple representations to make connections and show the conceptual meaning behind procedural fluency
- Connects new problems to prior knowledge, demonstrates multiple approaches, and provides multiple access points to learning
- Strengthens students’ ability to use critical thinking and complex reasoning through questions that focus on higher DOK levels

Support that simplifies

Offering step-by-step guidance and embedded teacher support, Ready Mathematics’ teacher tools are simple to implement and support powerful, effective teaching.

- A comprehensive Teacher Resource Book provides point-of-use strategies, tips, and mathematical discourse for teaching every step of every lesson
- A K–8 Online Teacher Toolbox offers a virtual filing cabinet of instructional resources to support teaching throughout the year
- A rich array of assessment tools helps monitor student progress and guide responsive instruction
Meet Our Ready® Mathematics Authors

Ready Mathematics was built to reflect the connection between the latest research and practical classroom application. Guidance from our program’s authors continues to shape Ready to ensure that it is rigorous for students yet easy to implement for teachers.

Mark Ellis, Ph.D.

Awards & Key Positions
- Board of Directors, Executive Committee, NCTM
- Department Chair and Professor, Education, CSU Fullerton
- National Board Certified Teacher

Known for Research On
- Middle grades mathematics teaching and learning
- Equity, discourse, and technology in mathematics education
- Preparation of teachers of mathematics

Gladis Kersaint, Ph.D.

Awards & Key Positions
- Board of Directors, Executive Committee, NCTM
- Board of Directors, Association of Mathematics Teacher Educators
- Dean of the Neag School of Education, University of Connecticut

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Program Components

**Ready®**

**Instruction Books**
- Addresses the North Carolina Standard Course of Study with clear, thoughtful instruction
- Provides step-by-step guidance and point-of-use support on every page to support teachers

**Practice and Problem Solving Books**
- For every lesson:
  - Family Letter
  - Practice for each section in *Ready* Instruction

**Assessment Books**
- Cumulative assessments that prepare students for the expectations of the North Carolina End-of-Grade Assessment

*Ready® Instruction, Practice and Problem Solving, and Assessments* are available on the Teacher Toolbox.
Online Teacher Toolbox
(Teacher-Toolbox.com)

The easy-to-use **Online Teacher Toolbox** is a virtual filing cabinet of instructional resources designed to address the needs of all learners and differentiate instruction.

Complete access to all K–8 content:
- Interactive Tutorials
- *Ready Instruction* Prerequisite Lesson PDFs
- Lesson Quiz PDFs
- Mid-Unit and Unit Assessments
- Tools for Instruction PDFs

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**Online Diagnostic and Instruction**
Adaptive diagnostic and growth measure coupled with interactive lessons to support personalized online instruction plan

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**i-Ready**
(i-Ready.com)

**i-Ready Door 24 Plus**
Free iPad app for computational fluency practice

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**Fluency App**
Using *Ready®* with *i-Ready®*: Program Overview

Whether using the *i-Ready®/Ready®* blended program or *Ready* as a stand-alone program, you have the flexibility to meet all your instruction and assessment needs.

**Diagnose and Monitor**

**Adaptive Diagnostic and Growth Monitoring**

*i-Ready®* Diagnostic

45–60 minutes, 3 times a year
Adaptive diagnostic designed to collect a broad spectrum of information on student ability to identify where students are struggling, measure growth across a student’s career, and plan instructional paths with a single measurement tool.

**Standards Mastery Monitoring**

*i-Ready®* Standards Mastery

10–15 minutes per standard
Our new Standards Mastery tool provides targeted insight into students’ mastery of individual, grade-level standards.

Alternatively, the following *Ready* assessment tools can be used instead of *i-Ready*. For pacing recommendations see pages A42 and A43.

- **Growth Monitoring:**
  *Ready* Assessments
- **Standards Mastery Monitoring:**
  *Ready Instruction* Interim Assessments

**Instruct**

**Whole Class Instruction**

*Ready®* Books and Online Teacher Toolbox

**Small Group Differentiation**

*Ready®* Online Teacher Toolbox

**Personalized Learning**

*i-Ready®* Instruction
Yolanda uses 4 cups of nuts and 2 cups of dried fruit to make trail mix.

**Think:** What number is 1 doubled?

**Think:** 4:2 is the same as $\text{?} : 1$?

A related **rate** compares any two quantities.

**Ratios,** **rates,** and **unit rates** are all comparisons. They compare one quantity to another quantity.

A **ratio** is an equivalent ratio that compares the first quantity in a ratio to only one another quantity.

Every ratio has a related rate.

**Unit Rate** for a ratio is an equivalent ratio that compares the first quantity in a ratio to only one **unit** of the second quantity. In this example, you know that the amount of nuts is double the amount of dried fruit.

The ratio is 4 cups to 2 cups or 4:2. Notice that the quantity of nuts is double the quantity of dried fruit.

You can use a tape diagram to show this comparison.

**Think:** How are ratios, rates, and unit rates related?

**Unit Rate**

A related **rate** compares any two quantities.

**Think** the same amount of time watching each episode. What is the unit rate of hours Zoe watches each episode?

**Answer:** $\frac{6}{1.5} = 4$ episodes per hour

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Deena drove 585 miles in 9 hours. Kristen drove 605 miles in 1 hour. Who drove at a faster rate?

**Answer:** Deena

**Show your work.**

**Fill in the blanks to compare the rates of speed for Deena and Kristen.**

**C**

**B**

**A**

**D**

Patrick paid $4.00 for 5 organic peaches. How much did he pay per peach?

**Answer:** $0.80 per peach

**Show your work.**

Zoe watched 6 episodes of her favorite online video series in 1.5 hours. She spent 2 hours. How many hours did Zoe watch one episode?

**Answer:** 0.33 hours

**Think:** How are ratios, rates, and unit rates related?

**Number Line**

**Unit Rate**

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