## i-Ready Classroom Mathematics

# Providing Support in Building Thinking Classrooms



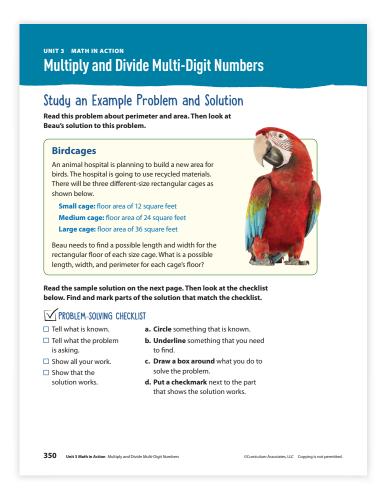
## How *i-Ready Classroom Mathematics*Supports Building Thinking Classrooms

*i-Ready Classroom Mathematics* is designed to support teachers looking to align their instruction with the 14 key practices outlined by Peter Liljedahl in his book *Building Thinking Classrooms in Mathematics, Grades K–12*. Built into the program, teachers can seamlessly integrate these practices, enabling them to foster an environment in which students engage in deeper, more meaningful mathematical learning. This will help students think critically, collaborate effectively, and develop a strong foundation in mathematics.

Explore below how the 14 practices are woven throughout i-Ready Classroom Mathematics.



**Start** problems, **Try It** problems, and **Math in Action** lessons are just a few of the rich thinking tasks available in *i-Ready Classroom Mathematics*.



**Start** problems: By launching the lesson with no explicit pre-instruction, teachers give students the opportunity to think critically, collaborate, and engage in meaningful mathematical discourse from the very beginning.

**Try It** problems promote productive struggle, perseverance, and flexible thinking. Students engage with both contextual and symbolic problems, choosing their own tools, representations, and strategies. These tasks allow students to make sense of the mathematics and experience real problem solving before instruction begins.

**Most Try It** problems can also be delivered verbally, as written or with small adjustments, and are intended to start the class.

**Math in Action** lessons offer rich tasks that let your students apply what they've learned in meaningful, real-world ways—deepening their understanding.

Liljedahl, P. (2021). *Building thinking classrooms in mathematics, grades K–12*. Sage Publications, Inc.

Curriculum Associates is not affiliated with Building Thinking Classrooms.



### Forming Collaborative Groups

Any time you use small group opportunities in i-Ready Classroom Mathematics is a chance to apply random groupings. This simple strategy helps break up social patterns, increases collaboration, and ensures all students engage with a variety of peers. Over time, random grouping builds a stronger sense of community and supports an equitable, student-centered learning environment.

### Where Students Work

i-Ready Classroom Mathematics doesn't dictate where students complete tasks, giving teachers the flexibility to adapt based on their classroom needs. Using vertical, non-permanent surfaces such as whiteboards or wall charts for Try It problems, or any task, can transform the learning environment.



understanding that they are being asked whether Amy's number of pennies is prime or composite and whether Tyrell's number of pennies is prime or composite.

Make Sense of the Problem

Before students work on Try It, use Say It Another

Way to help them make sense of the problem. Ask

a student to paraphrase the problem. Listen for

TRY IT

When all student thinking is visible, it promotes equity by reducing status differences and gives all students' work a voice. It also allows teachers to more easily observe, select, and sequence strategies while giving students the chance to learn from one another's approaches in real time. SMP 1, 2, 4, 5, 6

### 4 Arranging Furniture

*i-Ready Classroom Mathematics* doesn't require a specific classroom setup to succeed. However, when you reconfigure your classroom to be student centered, you'll naturally increase how much your students talk and decrease how much you do. That shift aligns powerfully with the program's discourse-based approach and supports deeper learning. Each day, you have flexible options to include rotations that offer differentiated support. The program provides ready-to-use resources for teacher-led groups, partner work, and independent stations, making it easy to meet students where they are.

In Grades K and 1, you can bring counting to life through playful, daily routines that use movement, rhythm, and rhyme. These repeated experiences, along with lesson- and center-based counting opportunities, help your students internalize the counting sequence, recognize number patterns, and develop a strong foundation in the base-10 system.

### 5 How to Answer Questions

The discourse-based approach in *i-Ready Classroom Mathematics* encourages students to ask Keep Thinking questions—those that extend their reasoning and reduce dependence on the teacher for next steps. Instead of waiting for your input, students are guided to engage with one another and take ownership of their learning. **Support Partner Discussion** prompts play a key role in this shift. They spark immediate peer-to-peer dialogue, promote shared responsibility, and help students stay engaged, even when the math gets challenging.

#### **DISCUSS IT**

SMP 3, 6, 7, 8

#### **Support Partner Discussion**

Encourage students to use the terms *factor pair*, *prime*, and *composite* as they discuss their solutions.

Support as needed with questions such as:

- Did you draw a picture or make a model to solve the problem? Why or why not?
- How is your solution method the same or different from your partner's solution method?

Language routines like Turn and Talk, the Four Rs, and Three Reads help students approach problems with enough information and reduce habits of asking Proximity and Stop Thinking questions. While designed for students, the **Math Discourse Cards** also support you in handling these types of questions by offering guidance on how to respond with more questions—a strategy encouraged in *Building Thinking Classrooms* to promote deeper thinking and independence.

The **sentence starters** help students rephrase their questions into Keep Thinking prompts, reinforcing a classroom culture in which students rely on each other, stay curious, and keep thinking through challenges.





### 6 When, Where, and How Tasks Are Given

Start and Try It problems are designed to be given at the beginning of the lesson without prior instruction, making them an ideal match for this practice. These tasks spark curiosity, promote student thinking from the outset, and shift the cognitive load to learners right away.



To enhance your task launch, consider incorporating elements from the Connect to Culture section in i-Ready Classroom *Mathematics*. This resource provides meaningful context that supports a storytelling approach—an essential part of engaging students in a Building Thinking Classrooms environment.

Math in Action problems are also well suited to this approach. Written in a narrative style, they naturally align with the goal of drawing students into the mathematics through real-world, story-driven scenarios.



#### Session 1 Use with Try It.

Artists in Puebla, Mexico have made Talavera tiles and pottery for centuries. This brightly colored style of pottery takes its name from a region of Spain that produces similar designs. Today, Talavera tiles decorate homes and other buildings in Mexico and across the United States. Ask students to share where they have seen Talavera or other colorful tiles.

### 7 What Homework Looks Like

Any questions you'd typically assign as homework can be reframed as **Check Your Understanding** tasks and brought into class time. Setting aside time for students to work on these problems during the lesson allows you to support their thinking in the moment and gather meaningful formative data.

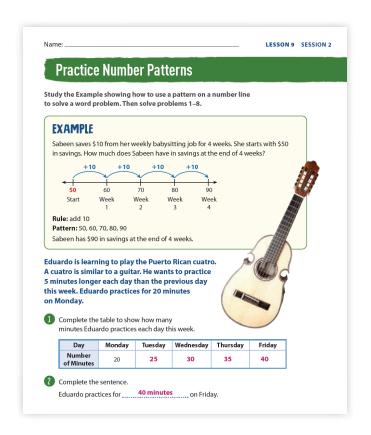
Questions from the **Apply It, Refine,** and **Additional Practice** sections are all well suited for this purpose. They offer a range of difficulty and depth, making it easy to tailor your selection to meet students where they are while reinforcing key content.

### 8 Fostering Student Autonomy

As a discourse-based program, i-Ready Classroom Mathematics is designed to create space for student voices and fosters autonomy by encouraging you to adopt a key principle: Don't say anything that another student could say.

One of the most effective tools for building this culture of student-driven discourse is the **Discuss It** prompt. These prompts, which span Grades K–8, are developmentally designed to support meaningful student-to-student conversations about the math, shifting the focus from teacher explanation to peer-to-peer reasoning.





### 9 Using Hints and Extensions

Creating a sequence of curriculum tasks that gradually increase in challenge, known as thin slicing, helps keep your students in a productive flow. This approach allows learners to build momentum, experience success, and stay engaged without becoming overwhelmed or disengaged.

You'll find excellent sources for building thin-sliced task sequences in the Fluency and Skills Practice pages, which offer a wide range of problems. The **Additional Practice** pages (i.e., green pages in the Student Worktext), with problems labeled Basic, Medium, and Challenge, are also ideal. Similarly, **Refine** session questions, labeled with Depth of Knowledge (DOK) levels, provide a structured way to layer complexity into your task sequences.

### 10 Consolidating a Lesson

Consolidation is a core part of the Try-Discuss-Connect framework. Helping your students merge their thinking with classmates' ideas and new models is central to i-Ready Classroom Mathematics. One of the most effective ways to consolidate through student work is by thoughtfully selecting and sequencing student strategies.

Resources like **Picture It, Model It**, and **Connect It** questions provide clear guidance on what to focus on during consolidation conversations, teacher scribing, or guided gallery walks. These supports help you spotlight the mathematical thinking that matters most.

During consolidation, you might also surface common misconceptions your students encountered—not to call out individuals but to spark rich discussion and reinforce deeper understanding. The Common Misconceptions in i-Ready Classroom Mathematics give you helpful Look Fors and talking points you can use for Turn and Talks or whole class reflections.

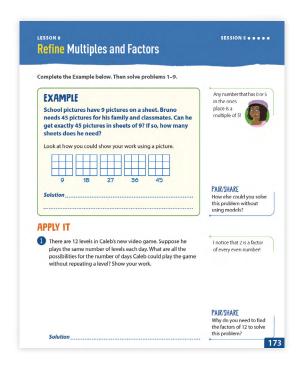
**Common Misconception** Look for students who incorrectly identify 23 as a composite number and 36 as a prime number because they confuse the terms prime and composite.

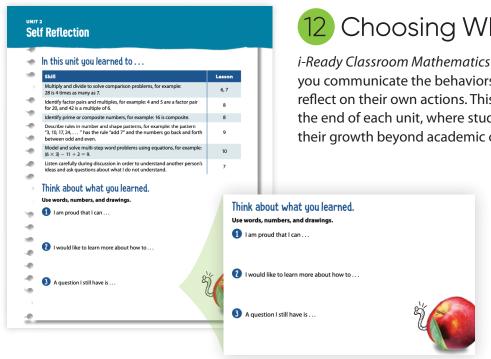
Once you've created your thin-sliced task set—drawing from any of the sources above—you can increase student ownership by writing each task on banners and posting them on vertical, non-permanent surfaces. This allows students to select their next task independently, reducing reliance on you and supporting autonomy.

### How Students Take Notes

Making notes, as opposed to taking notes, collaboratively gives students the opportunity to participate and contribute as opposed to being a passive participant. The **Example** question at the start of each **Refine** session is an ideal choice for the fill-in-the-blank examples referenced in Building Thinking Classrooms. It's already structured for easy adaptation into both a fill-in-the-blank format and a Type 1 task. You can also pull Type 1 tasks from Additional Practice questions labeled Basic and **Refine** questions marked DOK 1.

When selecting a Type 2 task, both Additional Practice and Refine questions—especially those with clear difficulty and DOK labels—offer strong options. These same pages also give students a range of problems they can choose from when selecting their own tasks for Quadrant C.





Choosing What to Evaluate

i-Ready Classroom Mathematics puts a strong emphasis on helping you communicate the behaviors you value and guide students to reflect on their own actions. This is built into the **Self Reflection** at the end of each unit, where students are encouraged to evaluate their growth beyond academic content.

> Students are also asked to make connections to the unit's content during the Self Reflection.

Additionally, the Teacher's Guide offers powerful prompts focused on supporting positive learning habits that you can use to check in on student progress with these essential non-curricular behaviors.

ASK We have been talking about making choices that help you learn math. What is going well for you as a math learner?

LISTEN FOR Students may describe managing their own learning by asking questions when they are confused and persisting with challenging work.

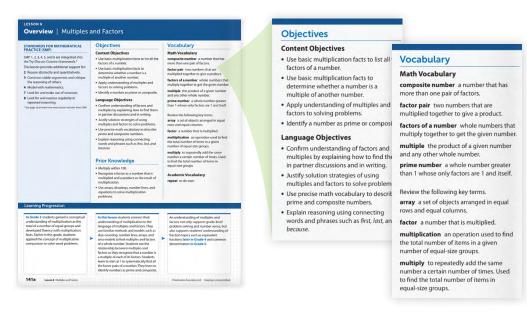
ASK What is going well for you when you work with other students to learn math?

LISTEN FOR Students may describe working well with others by taking turns, listening carefully, and helping each other.



### 13 Using Formative Assessment

The **Lesson Overview** page in *i-Ready Classroom Mathematics* gives you a focused snapshot of each lesson's **Content** Objectives, Language Objectives, and Key Vocabulary. Paired with clearly defined problem levels (i.e., Basic, Medium, Challenge; DOK 1, 2, 3), this information equips you to build purposeful tools that guide your students through the lesson with clarity and intention.



At the unit level, Self Checks break down the subtopics, offering a practical way for you and your students to track progress, celebrate growth, and pinpoint areas that need reinforcement or extension.



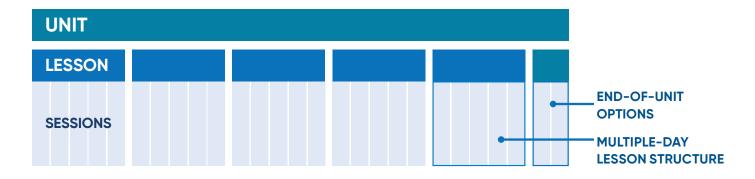
The **Lesson Overview** page in *i-Ready Classroom Mathematics* gives you a powerful launch point for designing assessment tools that generate meaningful data, helping you make informed decisions and drive deeper thinking in your Building Thinking Classrooms environment.

### About i-Ready Classroom Mathematics

*i-Ready Classroom Mathematics* is designed to support teachers by equipping them with the resources they need to help students develop a strong foundation in mathematics.

### Structured for In-Depth Understanding

The instructional design in *i-Ready Classroom Mathematics* emphasizes mathematical ideas as connected and interrelated, rather than a series of discrete topics.



### The Multiple-Day Lesson Structure

The multiple-day lesson structure provides time for students to develop deep understanding and make connections that extend across the lessons.

Lesson 7: Multiply with 7, 8, and 9 across the Multiple-Day Lesson Structure

Day 1	Day 2	Day 3	Day 4	Day 5
<b>Explore</b> Session	<b>Develop</b> Sessions			<b>Refine</b> Session
<ul> <li>Prioritize critical prerequisite skills.</li> <li>Accelerate access to grade-level content.</li> </ul>	<ul> <li>Build conceptual understanding through multiple-day Develop sessions.</li> <li>Practice new skills and apply new learning.</li> </ul>			<ul> <li>Strengthen grade- level practice and differentiation with built-in practice time.</li> </ul>

#### A Powerful Instructional Framework

The Try–Discuss–Connect instructional framework of *i-Ready Classroom Mathematics* seamlessly incorporates multiple routines and best practices into instruction while integrating language and mathematics to develop deeper understanding.



#### TRY IT

Students make sense of the problem.

Students solve and support their thinking.



#### **DISCUSS IT**

Students share their thinking with a partner.

Students compare their strategies.



#### CONNECT IT

Students make connections and reflect on what they have learned.

Students apply their thinking to a new problem.

#### Time for Practice and Differentiation Built into Instruction

Each session includes time for student-centered, discourse-driven instruction and options for differentiation and practice.

### Student-Centered, Discourse-Driven Instruction











#### **Options for Practice and Differentiation**



#### **Teacher-Led**

Current or Prerequisite Lessons:

- Teacher's Guide Activities
- · Tools for Instruction
- Learning Activities (Grades K and 1)
- Center Activities (Grades 2–5)
- Interactive Tutorials

#### Partner Partner

- Center Activities (current or Prerequisite Lessons)
- Centers Library (Grades K and 1)
- · Enrichment Activities
- Unit Games (on grade level to review, prerequisite to meet needs)
- Grade Level Games (Grades K–2)

#### Independent



- Practice Student Worktext
- Fluency and Skills Practice
- Interactive Practice
- Fluency Flight (Grades 2–5)
- Learning Games
- i-Ready Personalized Instruction\*



<sup>\*</sup>i-Ready Personalized Instruction is an optional add-on.

# i-Ready Classroom Mathematics



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