i-Ready Classroom Mathematics

Integrating Social-Emotional Learning (SEL) into Mathematics Curriculum



Educators know that math education isn't just about math.

As students learn new mathematical concepts, they also learn about:

- **Themselves:** how to reflect on their own understanding, persist through challenges, and respond to critical feedback
- Other math students: how to interpret their actions and emotions, communicate clearly and kindly, and support each other as they learn
- The communities and relationships that link them together: how their actions impact the group, how systems and routines create progress, and how different perspectives create a whole greater than its parts

Because SEL is a complex, nuanced topic, it's important to establish a shared frame of reference when you talk about it. We chose to use the five core SEL competencies as defined by the Collaborative for Academic, Social, Emotional Learning (CASEL)* because of its asset-based language and focus on equity.

The Collaborative for Academic, Social, and Emotional Learning (CASEL) describes five areas of SEL:



Self-Awareness



Self-Management



Responsible Decision-Making



Social Awareness



Relationship Skills

i-Ready Classroom Mathematics, facilitated in a kind, compassionate way, addresses all five core competencies.

i-Ready Classroom Mathematics Asset/Feature Name**

Try-Discuss-Connect routine

Self Check

Interactive Learning Games

Assessments (Formal and Informal)

(e.g., Exit tickets, End-of-Lesson Checklists, Math Journal questions, Unit Review, Diagnostic, Lesson Quizzes, and Mid-Unit Assessments)

English Learner Supports

My Progress

End-of-Unit Self-Reflections

Data Chats

Comprehension Checks

Reflect prompts

Lesson 0

Select and Sequence Student Solutions

Deepen Understanding

Discourse Cards/Discourse Cube

Pair/Share prompts

Ask/Listen For guidance

Connect to Community and Cultural Responsiveness

Small Group Differentiation

(e.g., Math Center Activities, Unit Games)

Family Letters

Real-World Connection

Develop Language

Language Objectives

Math in Action Lessons

Digital Math Tools

Reflect Questions

Self- Awareness	Self- Management	Responsible Decision-Making	Social Awareness	Relationship Skills
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^{**}To see where these assets/features appear in the program, see $\underline{pp. 10-11}$.



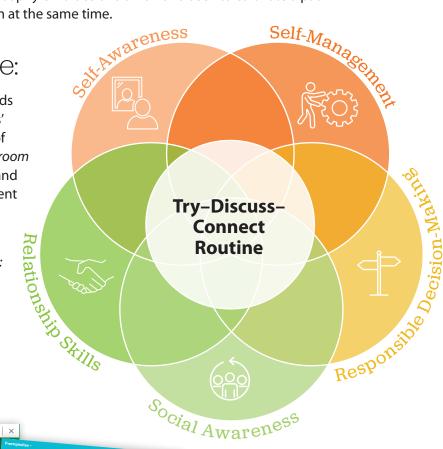
All Five SEL Competencies

SEL is an inextricable part of math education. *i-Ready Classroom Mathematics'* routines, supports, and philosophy embrace this union and seek to cultivate a path for academic and SEL growth at the same time.

Instructional Routine:

The **Try-Discuss-Connect routine** builds the social-emotional aspects of students' education while creating a community of interconnected learners. In *i-Ready Classroom Mathematics*, every student has a voice and an opportunity to engage with the content in a way that is meaningful to them.

Watch classroom videos of the Try-Discuss-Connect instructional routine: CurriculumAssociates.com/TDC.



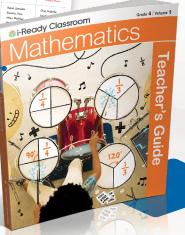
Back to Lesson Stats Show All Completed Work Show All Completed Wo

In-Depth Data:

Students, teachers, and families have the data they need to reflect meaningfully on students' progress, set appropriate goals, and celebrate students' achievements.

Embedded Teacher Support:

The Teacher's Guide includes support that promotes broader SEL integration and equips every educator to create a more inclusive and productive classroom.





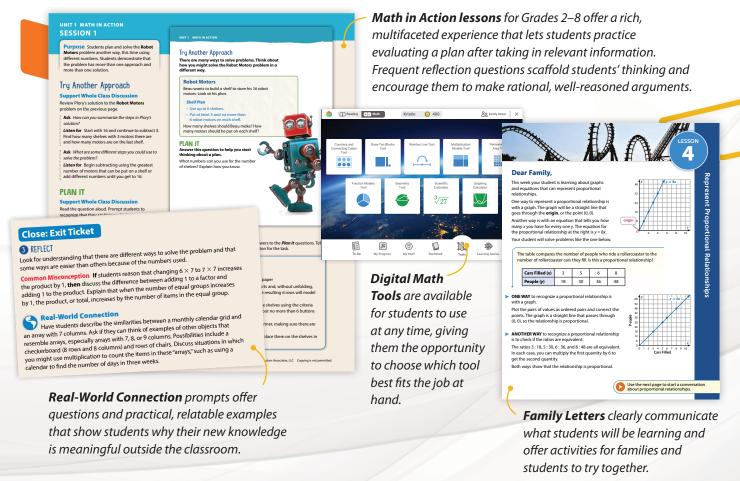
Responsible Decision-Making

Responsible decision-making is students' "abilities to make caring and constructive choices about personal behavior and social interactions across diverse situations" (CASEL, 2020).* This includes demonstrating curiosity and open-mindedness, learning to make a reasoned judgment based on the facts, and evaluating and anticipating the consequences of one's actions. *i-Ready Classroom Mathematics* provides opportunities for students to learn about and practice responsible decision-making and to build the context needed to apply their practice broadly.



Students practice responsible decision-making in every part of the Try–Discuss–Connect routine.

- Try It: Students independently choose the best strategy to solve a problem.
- **Discuss It:** Students demonstrate curiosity and open-mindedness as they choose what to say as they share their thinking.
- Connect It: Students evaluate methods and can consider the merits of different solution strategies.



^{*}Collaborative for Academic, Social, and Emotional Learning. (2020). CASEL's SEL framework: What are the core competence areas and where are they promoted? CASEL. https://casel.org/wp-content/uploads/2020/12/CASEL-SEL-Framework-11.2020.pdf



Self-Awareness

Self-awareness includes students' abilities to recognize their strengths and limitations, understand their own thoughts and emotions, have a growth mindset, and experience self-efficacy. *i-Ready Classroom Mathematics* promotes self-awareness by providing frequent opportunities for students to reflect on their knowledge, giving them time to think independently, and equipping teachers with rich data from informal assessments to share with them.



Read and try to solve the problem below. A company makes a toy robot that has 2 antennas and **Self Check** lets students check off 5 buttons. How many antennas and buttons are needed skills they already know before for 6 robots? starting a unit, and then reflect on their progress at the end of a unit. Math Toolkit counters SELF CHECK • 1-centimeter grid paper Before starting this unit, check off the skills you know below. As you complete multiplication models each lesson, see how many more skills you can check off! Before During the **Try It**, students work Understand area and find area by tiling and by multiplying. independently, letting them better Find the area of a combined rectangle or a non-rectangular shape understand their own abilities and by adding the areas of the rectangles that make up the shape. prepare to take academic risks. Use multiplication or division to solve one-step word problems. Use addition, subtraction, multiplication, or division to solve Solv 8 REFLECT Drav Look back at your Try It, strategies by classmates, and Picture It and Model It. Which models or strategies do you like best for mulitplying to find the area of a rectangle? Explain. 9 MATH JOURNAL Missy wants to hang 12 pictures on her bedroom wall. She hangs 3 pictures in each row. How many rows of pictures are there? **Connect It** questions ask Explain two ways to find the answer. students to reflect and apply what they have Frequent, informal **checks for understanding** allow students to learned to novel problems gather data on their abilities and set new goals for growth. and situations.

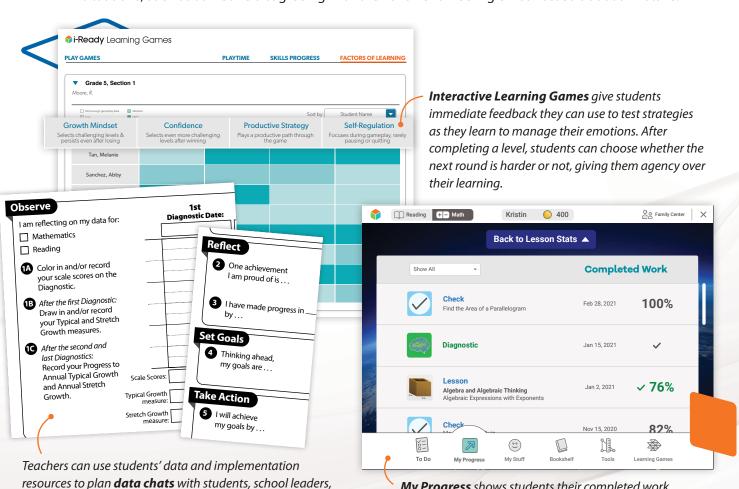


Self-Management

CASEL defines self-management as students' abilities to "manage" [their] emotions, thoughts, and behaviors effectively in different situations to achieve goals and aspirations," including setting personal and collective goals, taking initiative, and using planning and organizational skills (CASEL, 2020).* i-Ready Classroom Mathematics' daily routine, online activities, and robust, accessible data help students build this crucial skill.

Using the Try-Discuss-Connect routine creates opportunities for students to learn and demonstrate self-management.

- Try It: As students persevere through a novel problem independently, they practice managing their emotions, such as excitement to share their thinking or frustration with a tough question.
- **Discuss It:** Students learn how to manage their emotions and actions in response to potentially challenging situations, such as someone disagreeing with their answer or feeling embarrassed about a mistake.



*Collaborative for Academic, Social, and Emotional Learning. (2020). CASEL's SEL framework: What are the core competence areas and where are they promoted? CASEL. https://casel.org/ wp-content/uploads/2020/12/CASEL-SEL-Framework-11.2020.pdf

My Progress shows students their completed work,

including their scores on Comprehension Checks. This keeps

students on track and helps them understand their progress.

and families. These help students examine their growth and

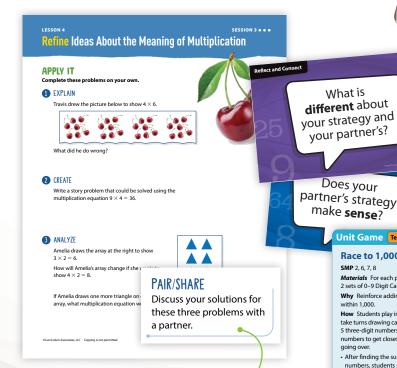
see their teachers and families as allies.



Social Awareness

Social awareness encompasses students' abilities to understand the perspectives of others and empathize with them. This includes recognizing others' strengths, understanding how one's own behavior impacts others, and demonstrating empathy and compassion. i-Ready Classroom Mathematics provides daily opportunities for students to learn about and practice social awareness.





numbers, students subtract their sum from 1,000 to determine who is closest In the **Discuss It**, students share their thoughts and to 1,000 without going over. If a player goes over they lose. strategies with their peers. This communication builds students' capacity for empathy and fosters the trust and security needed for them to feel safe taking academic risks. Students learn how to infer their partners' emotions, what impact their reaction to someone's work has on them, and how to better understand their classmates' thinking.

Discourse Cards and the **Discourse** Cube provide questions and sentence starters that scaffold conversations to help students be a part of an honest and healthy academic discussion that shows respect for classmates' perspectives.



Unit Games (K-8) and **Grade Level** Games (K-2) use play to reinforce academic and socialemotional learning.

Connect to Community and Cultural Responsiveness

Use these activities to connect with and leverage the diverse backgrounds and experiences of all students.

Session 1 Use with Additional Practice, problem 3.

Explain that flowers are very important to different cultures around the world. Flowers are used to show love and happiness and are used in celebrations (for example, Valentine's Day, anniversaries and Day of the Dead). Flowers are also popular subjects in art in cultures throughout the world. Ask students to share experiences they have had with flowers on holidays or special occasions to help make cultural connections.

Session 2 Use with Apply It, problem 7.

· Ask students to name some of their favorite books. Display a book

Session 3 Use throughout the session.

• Display different edible seeds such as sunflower, pumpkin, and sesame. Explain that many cultures use different seeds for food. Further explain that beans and nuts are also seeds. Share a seed, bean, or nut that is popular in your family or culture. Call on volunteers to describe seeds or nuts that they enjoy eating.

Unit Game

SMP 2, 6, 7, 8

within 1.000.

Race to 1,000

Materials For each pair: Recording Sheet, 2 sets of 0–9 Digit Cards

Why Reinforce adding and subtracting

How Students play in pairs. Partners

take turns drawing cards to each make 5 three-digit numbers and add their

numbers to get closest to 1,000 without

· After finding the sum of all 5 three-digit

Session 4 Use with Apply It, problem 7.

Explain that by the time students graduate from high school, they will have been taking classes for 12 to 14 years. Have each student

Connect to Community and Cultural Responsiveness sections offer context and suggestions on how to honor students' diverse perspectives and experiences, bring them into the lesson, and give problems broader context. This helps students develop an appreciation for different worldviews and customs.



Relationship Skills

Relationship skills are students' abilities to establish and maintain healthy and supportive relationships. This includes communicating effectively, practicing teamwork, and seeking or offering support when it's needed. In i-Ready Classroom Mathematics, relationship skills are put to the forefront of each session.

The Discuss It questions help students practice crucial relationship skills. They learn what questions to ask to better understand their classmates' thinking and how to support each other through challenging work. These empathic bridges build toward an understanding of how to maintain positive, healthy connections with peers and teachers.



Develop Language

Why Clarify the meaning of the homophones some

How Ask students to circle the word sum. Display the words some and sum. Have students chorally

although the words sou have different meaning some means an amoun Point to sum. Explain th of an addition problem equation such as 3 + 4The sum of 3 + 4 is 7. Di equations. Have studer

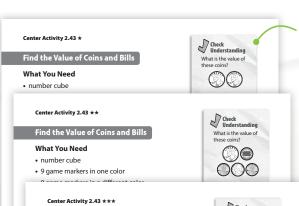
pronounce the terms a

Develop Connecting Place-Value Strategies to an Algorithm

Read and try to solve the problem below

What is the sum? + 229 Use place value to help you add.

> **Math Center Activities** let every meaningfully and be a valued member of a team.



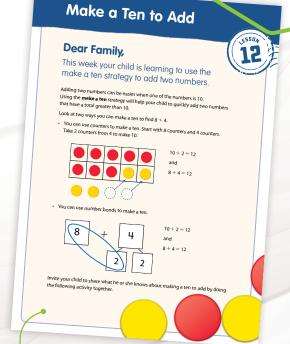
Differentiated student participate

Clear, effective communication is a crucial relationship skill. The **Develop**

Language prompts and **Language Objectives** target specific, relevant

words to help students communicate effectively, demonstrate their

understanding, and participate in mathematical discourse.



Family Letters bring the concepts from class into the home and encourage students to practice academic communication with a broader audience.

What You Do

· Game Board

What You Need

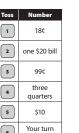
 number cube • 9 game markers in one color

1. Take turns, Roll the number cube. Find the amount of money next to that toss in the

Find the Value of Coins and Bills

• 9 game markers in a different colo

- 2. Find the group of coins or bills on the Same Board that has the same value
- 3. Your partner checks the answer. If you are correct, cover that box with a game marker. If you are incorrect, your turn ends. If there are no boxes left with that value, your turn ends.
- 4. The first player to cover three boxes in a



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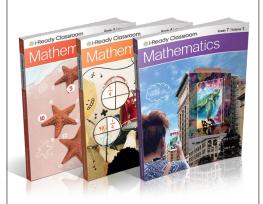
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It's All Here

i-Ready Classroom Mathematics' features work together to support rich, interconnected learning. Whether you're looking at the Student Worktext, the Teacher's Guide, the Student Digital Experience, or the Teacher Digital Experience, you'll see our commitment to SEL integration.

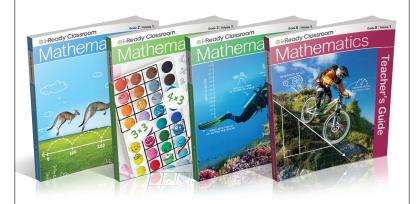


Student Worktext



- Assessments (Formal and Informal)
- End-of-Lesson Checklist (6-8)
- · End-of-Unit Self-Reflections
- English Learner Supports
- Family Letters
- Math in Action lessons
- · Math Journal questions
- Try-Discuss-Connect routine
- Reflect prompts
- · Reflect Questions
- Self Check
- Unit Review

Teacher's Guide



- Ask/Listen For guidance
- · Assessments (Formal and Informal)
- Connect to Community and Cultural Responsiveness
- Deepen Understanding
- Develop Language
- · End-of-Lesson Checklist (6-8)
- End-of-Unit Self-Reflections
- English Learner Supports
- Family Letters
- · Language Objectives

- Lesson Quizzes
- · Math in Action lessons
- Math Journal guestions
- Mid-Unit Assessments
- Pair/Share prompts
- Real-World Connection
- · Reflect prompts
- · Reflect Questions
- Select and Sequence **Student Solutions**
- Self Check
- Try–Discuss–Connect routine
- · Unit Review



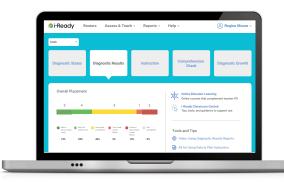
Student Digital Experience



- Assessments (Formal and Informal)
- · Digital Math Tools
- English Learner Supports
- · Family Letters
- · Interactive Learning Games
- Lesson 0
- My Progress



Teacher Digital Experience



- · Assessments (Formal and Informal)
- · Comprehension Checks
- Data Chats
- Diagnostic
- · Digital Math Tools
- Discourse Cards/Discourse Cube
- English Learner Supports
- · Family Letters
- Lesson 0
- Lesson Quizzes
- · Math Center Activities
- · Mid-Unit Assessments
- Small Group Differentiation
- Unit Games



For more information:

Contact your educational consultant at

Curriculum. Associates.com/FindYourRep

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







