INTEGRATE Language and **Mathematics**

The Try-Discuss-Connect Framework incorporates language routines, teacher moves, and conversation tips. Targeted support helps address the language demands for reading, writing, speaking, and listening.

SUPPORTS FOR LANGUAGE DEVELOPMENT



Language Routines

Three ReadsCo-Craft QuestionsNotice and Wonder

• Say It Another Way Teacher Moves

- Turn and Talk
- Individual Think Time



Language RoutinesCompare and Connect

Collect and Display

Teacher Moves

- Turn and Talk
- Individual Think Time
- Four Rs
- **Conversation Tips**

CONNECT IT

Language Routines

- Collect and Display
- Compare and Connect

Teacher Moves

- Turn and TalkIndividual Think Time
- Four Rs

Language Routines

To make sure students understand the problem, use a language routine such as **Three Reads**. In this routine, students read a word problem three times, each time with a specific focus:

- Read 1: What is the problem about?
- **Read 2:** What are we trying to find out?
- **Read 3:** What are the important quantities and relationships?



Teacher Moves

Use teacher moves like Turn and Talk and Individual Think Time to help students develop their ideas and increase participation in discussion.

Differentiated Instruction for English Learners

Every session includes differentiated support for a continuum of English proficiency levels.



f. 50 rounds to ...
3 REFLECT

6

Explain your answer to problem 2f.

Lesson 1 Use Place Value to Round Numbers

©Curriculum Associates, LLC Copying i

LANGUAGE DEVELOPMENT and **Discourse Support**

Build students' understanding and use of math terms and academic language to deepen their conceptual understanding. *i-Ready Classroom Mathematics* includes activities and support at the word/phrase, sentence, and discourse levels so that all students can engage in rigorous mathematics and communicate effectively.

Word Level

Math terms and academic vocabulary are learned and practiced through routines, activities, and in-context use.

Sentence Level

Resources, like the Discourse Cards and the Develop Academic Language tips, help students express ideas in complete sentences with increased detail.

Discourse Cards

Discourse Level

Within the Try-Discuss-Connect framework, prompts and supports guide students to develop discourse skills, such as explaining ideas and justifying their thinking.

RESOURCES FOR Language Development

Use the resources below to build the academic language of all students, especially English learners. These supports help students learn how to communicate effectively across the language domains.

Feature	How This Supports English Learners	Where to Find It				
Language Expectations	Language Expectations charts provide examples of what English learners can do based on their English language proficiency levels in connection with a learning target. These examples help teachers differentiate instruction and meet the needs of English learners.	Teacher's Guide				
Cognate Support Routine	A <i>Cognate Support Routine</i> enables students who speak Spanish or other Latin-based languages to use their home language as an asset for learning English.	Teacher's Guide				
Differentiation: English Learners	<i>Differentiation: English Learners</i> scaffolds the language so students can access the mathematics in one problem or part of each session. Instruction is differentiated for different levels of English proficiency and focuses on the language domains of listening, speaking, reading, and writing.	Teacher's Guide				

ENGLISH LEARNER SUPPORT

	BEGINNING	INTERMEDIATE		ADVANCED/ADVANCED HIGH	
LANGUAGE DOMAINS	Level 1	Level 2	Level 3	Level 4	Level 5
LISTENING	Match the word form of an orally given three-digit number with a visual representation of the number.	Given a number orally, determine which ten the number will round to using a hundred chart.	Given a number orally, round the number to the nearest ten or hundred using a number line.	Select the numbers that, when rounded to the nearest ten or hundred, will round to an orally-given ten or hundred using a number line.	Identify the numbers that, when rounded to the nearest ten or hundred, will round to an orally-given ten or hundred using a number line.
SPEAKING	State reasons why an estimate does or does not make sense using illustrations, tools, and teacher prompts.	State reasons why an estimate does or does not make sense using sentence starters and teacher prompts.	Explain why an estimate does or does not make sense using oral sentence frames and visuals.	Explain why an estimate does or does not make sense using a word or phrase bank and visuals.	Explain why an estimate does or does not make sense using visuals and examples.
READING	Match and label the place value of each digit in a three-digit number with visual representations using a table.	Match the word form of a three-digit number with a visual representation using a place-value chart.	Select the word form of a three-digit number using visual representations of the number.	Compare and contrast two explanations of how a student rounded a number to the nearest ten or hundred using tools.	Sequence sentences to demonstrate how to round to the nearest ten or hundred with a partner.
WRITING	Complete an explanation of how to round a number to the nearest ten or hundred using a word bank.	Produce simple sentences about the steps to round a number to the nearest ten or hundred using a word bank.	Describe the steps to round a number to the nearest ten or hundred using a word bank.	Describe in detail the steps to round a number to the nearest ten or hundred using visual representations and tools.	Describe in detail the steps to round numbers to the nearest ten or hundred using a number line.

Language Expectations for Differentiation chart in Teacher's Guide

LANGUAGE AND DISCOURSE

Feature	How This Supports Language and Discourse	Where to Find It	
Language Objectives	<i>Language Objectives</i> indicate the language students are expected to understand and produce as they work on the content objectives.	Teacher's Guide	
Build Your Vocabulary	<i>Build Your Vocabulary</i> provides the opportunity for students to use prior knowledge in reviewing previously taught math vocabulary and provides an early entry point to general, all-purpose academic words.	Student Worktext Teacher's Guide	
Try–Discuss– Connect Framework	In <i>Discuss It</i> , students explain their ideas and begin to understand other students' ideas, first with partners and then with the class. Through discourse, students see how the same problem can be represented with different models or solved with different strategies.	Student Worktext Teacher's Guide	
Develop Academic Language	<i>Develop Academic Language</i> provides targeted support at the word, sentence, or discourse level to ensure mathematics content is accessible to all students.	Teacher's Guide	
Explore Session: Prepare for	<i>Prepare For</i> pages use graphic organizers to help students access prior knowledge and vocabulary they will build on in the lesson.	Student Worktext Teacher's Guide	
Discourse Cards and Discourse Cube	<i>Discourse Support</i> resources provide sentence starters and questions to help students initiate, deepen, and extend conversations with partners, small groups, or the whole class.	Teacher Digital Experience Teacher Toolbox	

©Curriculum Associates, LLC Copying is not permitted.