



MLR 8: Discussion Supports

Unlike the other routines, MLR 8 includes a collection of strategies and moves that can be combined and used to support discussion during almost any activity.

Examples of possible strategies:

Language

- Revoice student ideas to demonstrate mathematical language use by restating a statement as a question in order to clarify, apply appropriate language, and involve more students
- Practice phrases or words through choral response

Rhetoric

- Press for details in students' explanations by requesting students to challenge an idea, elaborate on an idea, or give an example
- Demonstrate uses of disciplinary language functions such as detailing steps, describing and justifying reasoning, and questioning strategies
- Prompt students to think about different possible audiences for the statement, and about the level of specificity or formality needed for a classmate vs. a mathematician, for example. [Convince Yourself, Convince a Friend, Convince a Skeptic (Mason, Burton, & Stacey, 2010)]

Understanding

- Show central concepts multi-modally by using different types of sensory inputs: acting out scenarios or inviting students to do so, showing videos or images, using gestures, and talking about the context of what is happening
- Think aloud by talking through thinking about a mathematical concept while solving a related problem or doing a task
- Give students time to make sure that everyone in the group can explain or justify each step or part of the problem. Then, make sure to vary who is called on to represent the work of the group so students get accustomed to preparing each other to fill that role

Sentence Frames

Sentence frames can support student language production by providing a structure to communicate about a topic. Helpful sentence frames are open-ended, so as to amplify language production, not constrain it.

The table shows examples of generic sentence frames that can support common disciplinary language functions across a variety of content topics. Some of the lessons in these materials include suggestions of additional sentence frames that could support the specific content and language functions of that lesson.

Language Function	Sample sentence frames	
Describe	 It looks like I notice that I wonder if Let's try 	A quantity that varies is What do you notice? What other details are important?
Explain	• Then/Next, I •	I tried and what happened was How did you get? What else could we do?
Justify	I predict because	Why did you? How do you know? Can you give an example?
Generalize		will never because Is it always true that? Is a special case?
Critique	because This method works/doesn't work	 's idea reminds me of Another strategy would be because Is there another way to say/do? We can agree that

Language Function	Sample sentence frames	
Compare and Contrast	 Both and are alike because and are different because 	 How are and different? What do and have in common? One thing that is the same is One thing that is different is
Represent	 represents stands for corresponds to	Another way to show isHow else could we show this?
Interpret	 We are trying to We will need to know We already know It looks like represents 	 Another way to look at it is What does this part of mean? Where does show?