

Lesson 2: Building a Math Community

PREPARATION

Lesson Goals	Learning Targets
<ul style="list-style-type: none"> Build a welcoming classroom community that recognizes and values the unique perspectives and experiences each student brings. Articulate characteristics of great group work. 	<ul style="list-style-type: none"> I know my classmates and can recognize the value I will add to this classroom community. I can articulate what great group work looks like.

Lesson Narrative

The purpose of this lesson is two-fold: to continue exploring mathematics as a way to understand our world and deepen our interests, and to generate a common vision around a collaborative math classroom. In this lesson, students will participate in the second Check Your Readiness set of questions. They will then learn about a connection between mathematics and fashion design, and go on to create their own mathematical art in the form of a unique tessellation. In creating this tessellation, students both anticipate the upcoming ideas about transformations and learn that math pops up in some unexpected places. Finally, the "100 Mathematical Expressions to Get Students Talking" activity will foster the building of a strong math community in the classroom while also facilitating the establishment of expectations around collaboration and group work. Activities in this lesson incorporate math concepts that either draw upon previously studied math concepts from earlier courses, as is the case in Activity 3, or provide opportunities for students to preview upcoming concepts in this course, such as functions, symmetry, and geometric transformations.



What does collaborative group work look and sound like to you? What is something new you will do this year or semester to encourage collaboration amongst your students?

Name: _____

Period: _____

Date: _____

End-of-Unit 1 Student Survey

1. Ending this unit I feel ... (this question could be answered with pictures, words, etc.)

2. How much did you know about the content of this unit before starting?

- a. A great deal b. A little c. Not much

Feel free to share more:

3. After finishing the unit did your knowledge in the content:

- a. Increase greatly b. Increase a little c. Stay the Same

Feel free to share more:

4. What was most frustrating for you while learning during this unit?

- a. Materials used b. Teacher strategies c. Technology d. Other: _____

Feel free to share more: