

# Lesson 6: Compose and Decompose Shapes

## Standards Alignments

Building On	1.G.A.2
Addressing	2.G.A.1
Building Towards	2.G.A.3

## Teacher-facing Learning Goals

- Compose new shapes from equal-size smaller shapes, and identify the shapes.

## Student-facing Learning Goals

- Let's make shapes with equal-size smaller shapes.

## Lesson Purpose

The purpose of this lesson is for students to compose shapes and to recognize shapes that are made up of equal-size shapes.

In previous grades, students learned that shapes can be made up of other shapes. In previous lessons, students identified shapes based on the number of sides and corners and drew shapes having specific attributes.

In this lesson, students continue to practice identifying shapes based on their attributes using the vocabulary from previous lessons. They also extend their understanding of the attributes of shapes by considering how a shape may be composed of other shapes. In particular, this lesson focuses on composing a shape from the same equal-size shape. This lesson prepares students for partitioning shapes into equal-size pieces and naming equal-size pieces in upcoming lessons.

## Access for:

### Students with Disabilities

- Representation (Activity 1)

### English Learners

- MLR8 (Activity 1)

## Instructional Routines

Notice and Wonder (Warm-up)

## Materials to Gather

- Pattern blocks: Activity 1, Activity 2

## Materials to Copy

- Compose a Butterfly (groups of 2): Activity 1
- Centimeter Dot Paper - Standard (groups of

1): Activity 2

- Isometric Dot Paper - Standard (groups of 1): Activity 2

### Lesson Timeline

Warm-up	10 min
Activity 1	15 min
Activity 2	20 min
Lesson Synthesis	10 min
Cool-down	5 min

### Teacher Reflection Question

In the first section, students spent time describing and drawing shapes with given attributes. How did this work help prepare them for composing and decomposing shapes in this lesson?

### Cool-down (to be completed at the end of the lesson)

🕒 5 min

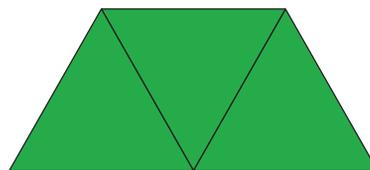
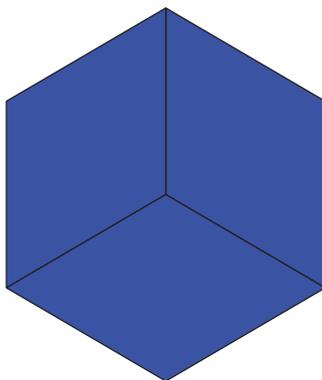
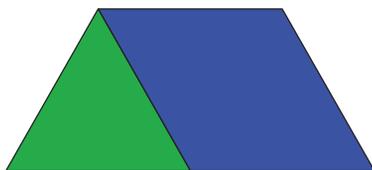
Look for Equal-size Shapes

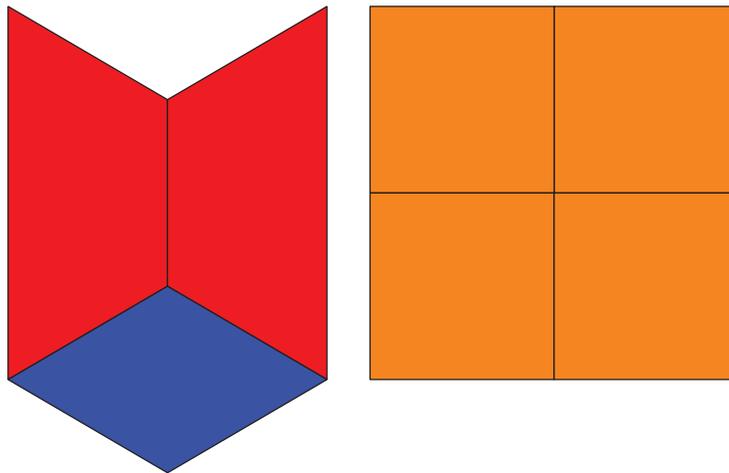
#### Standards Alignments

Building On 1.G.A.2  
Addressing 2.G.A.1

#### Student-facing Task Statement

1. Circle the shapes that are composed of only equal-size smaller shapes.



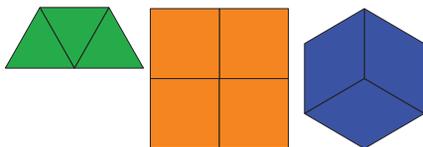


2. Choose 1 shape that you circled and describe the shapes that compose it.

The \_\_\_\_\_ is made up of  
\_\_\_\_\_.

### Student Responses

1.



2. Sample response: The hexagon is composed of 3 quadrilaterals or rhombuses.