

# **Lesson 5: Trapezoids**

## **Standards Alignments**

Addressing 5.G.B.4 Building Towards 5.G.B.3

## **Teacher-facing Learning Goals**

 Compare different definitions for trapezoids, and use them to identify trapezoids.

### **Student-facing Learning Goals**

Let's explore trapezoids.

## **Lesson Purpose**

The purpose of this lesson is for students to explore two different definitions of trapezoid.

The purpose of this lesson is for students to explore trapezoids and agree on a definition of trapezoids for this course. In the first activity, students see two different definitions for a trapezoid both of which are commonly used, one that excludes parallelograms and one that includes parallelograms. The exclusive definition of a trapezoid states that a trapezoid has exactly one pair of opposite sides that are parallel. The inclusive definition states that a trapezoid has at least one pair of opposite sides that are parallel. In the second activity, students recognize that we have chosen to use the inclusive definition of a trapezoid. Students should have access to straight edges, protractors, and patty paper throughout this lesson.

#### **Access for:**

**1 Students with Disabilities** 

Engagement (Activity 2)

# **3** English Learners

MLR8 (Activity 2)

#### **Instructional Routines**

What Do You Know About \_\_\_\_\_? (Warm-up)

#### **Lesson Timeline**

Warm-up	10 min
Activity 1	20 min

### **Teacher Reflection Question**

Did students notice the difference in the definitions of the trapezoid? How did they explain that difference in terms of the hierarchy on the anchor chart?



Activity 2	15 min
Lesson Synthesis	10 min
Cool-down	5 min

# $\textbf{Cool-down} \hspace{0.2cm} \text{(to be completed at the end of the lesson)}$

© 5 min

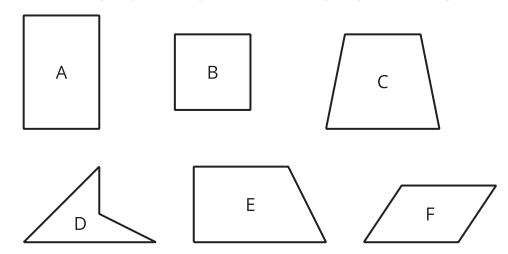
Which Ones are Trapezoids?

# **Standards Alignments**

Addressing 5.G.B.4

# **Student-facing Task Statement**

- 1. When is a quadrilateral also a trapezoid?
- 2. Which of the following shapes are trapezoids? Show or explain your reasoning.



# **Student Responses**

- 1. A quadrilateral is a trapezoid if it has at least one pair of opposite sides that are parallel.
- 2. All of the shapes except D are trapezoids because they have at least one pair of opposite sides that are parallel.