

# Learning Targets

## Areas

### Lesson 1: Tiling the Plane

- I can explain the meaning of area.

### Lesson 2: Finding Area by Decomposing and Rearranging

- I can explain how to find the area of a figure that is composed of other shapes.
- I know how to find the area of a figure by decomposing it and rearranging the parts.
- I know what it means for two figures to have the same area.

### Lesson 3: Reasoning to Find Area

- I can use different reasoning strategies to find the area of shapes.

### Lesson 4: Parallelograms

- I can use reasoning strategies and what I know about the area of a rectangle to find the area of a parallelogram.
- I know how to describe the features of a parallelogram using mathematical vocabulary.

### Lesson 5: Areas of Parallelograms

- I can identify pairs of base and height of a parallelogram.
- I can use the area formula to find the area of any parallelogram.

### Lesson 6: From Parallelograms to Triangles

- I can explain the special relationship between a pair of identical triangles and a parallelogram.

### Lesson 7: Area of Triangles

- I can use what I know about parallelograms to reason about the area of triangles.

### **Lesson 8: Formula for the Area of a Triangle**

- I can use the area formula to find the area of any triangle.
- I can write and explain the formula for the area of a triangle.
- I know what the terms “base” and “height” refer to in a triangle.

### **Lesson 9: Polygons**

- I can describe the characteristics of a polygon using mathematical vocabulary.
- I can reason about the area of any polygon by decomposing and rearranging it, and by using what I know about rectangles and triangles.

### **Lesson 10: What is Surface Area?**

- I know what the surface area of a three-dimensional object means.

### **Lesson 11: Polyhedra and Nets**

- I can describe the features of a polyhedron using mathematical vocabulary.
- I understand the relationship between a polyhedron and its net.
- When given a net of a prism or a pyramid, I can calculate its surface area.

### **Lesson 12: More Nets, More Surface Area**

- I can calculate the surface area of prisms and pyramids.
- I can draw the nets of prisms and pyramids.

### **Lesson 13: Designing a Tent**

- I can apply what I know about the area of polygons to find the surface area of three-dimensional objects.
- I can use surface area to reason about real-world objects.