## 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.



© CC BY Open Up Resources. Adaptations CC BY IM.