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## Unit 1 - Areas

In this unit, you will learn to find areas of polygons by decomposing, rearranging, and composing shapes. You will learn to understand and use the terms “base” and “height,” and find areas of parallelograms and triangles. Finally you will learn about polyhedra (pyramids and prisms) and find their surface areas.

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### Essential Question

How can we measure 2D and 3D items in the real world?

### The Focus of the Unit

In this unit, you will extend your reasoning about area to include shapes that are not composed of rectangles. Doing this draws on abilities developed in earlier grades to compose and decompose shapes. Through activities designed to allow you to make sense of problems and solve them, you will build on these abilities and your knowledge of areas of rectangles to find the areas of other polygons. You will learn strategies for finding areas of parallelograms and triangles, and use regularity in repeated reasoning to develop formulas for these areas. and use these formulas to solve problems. You will discover that any polygon can be decomposed into triangles, and use this knowledge to find areas of more complex polygons. You will learn about polyhedra and find the surface areas of polyhedra with triangular and rectangular surfaces. You will study, assemble, and draw nets for polyhedra and use nets to determine surface areas. Throughout this unit, they discuss their mathematical ideas and respond to the ideas of others.

### Learning Targets

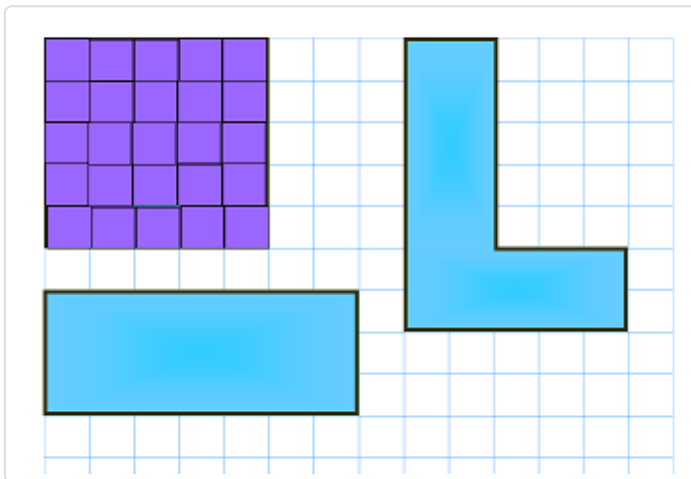
- I can find areas by composing and decomposing shapes.
- I can use different strategies to find areas of parallelograms.
- I can use different strategies to find the areas of triangles.
- I can determine the area of a triangle using its base and height.
- I can use different strategies to find the surface area of polyhedra.

### Lessons

1. Tiling the Plane



5. Areas of Parallelograms
6. From Parallelograms to Triangles
7. Area of Triangles
8. The Formula for the Area of a Triangle
9. Polygons
10. What is Surface Area?
11. Polyhedra and Nets
12. More Nets, More Surface Area
13. Designing a Tent



## I want to share a:

Note

Post



[Unit 1 Lessons \(https://im.kendallhunt.com/MS\\_ACC/students/1/1/1/index.html\)](https://im.kendallhunt.com/MS_ACC/students/1/1/1/index.html)



Worksheets

[Lesson 1-1 \(/ftpimages/1675/download/download\\_3188713.pdf\)](#)

[Lesson 1-2 \(/ftpimages/1675/download/download\\_3188715.pdf\)](#)

[Lesson 1-3 \(/ftpimages/1675/download/download\\_3188717.pdf\)](#)

[Lesson 1-4 \(/ftpimages/1675/download/download\\_3188719.pdf\)](#)

[Lesson 1-5 \(/ftpimages/1675/download/download\\_3188720.pdf\)](#)

[Lesson 1-6 \(/ftpimages/1675/download/download\\_3188726.pdf\)](#)

[Lesson 1-7 \(/ftpimages/1675/download/download\\_3188727.pdf\)](#)

[Lesson 1-8 \(/ftpimages/1675/download/download\\_3188728.pdf\)](#)