Mathematical Background

Here is an overview of the content your students will learn in this unit.

Geometry and Time

Understand attributes of flat and solid shapes.

- Two- and three-dimensional shapes have defining attributes that help identify the shape.
- » Attributes for two-dimensional shapes include sides and vertices
- » Attributes for three-dimensional shapes include edges, faces and vertices.
- Shapes can be composed from smaller shapes.
 - » Two triangles put together can make a square.
 - » Four triangles put together can make a rectangle.

TEKS 1.6.A, 1.6.B, 1.6.C, 1.6.D, 1.6.E, 1.6.F

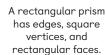
Composing into a larger shape

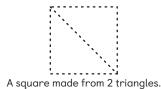
Two-dimensional shape

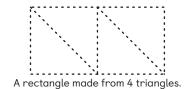


and no vertices.

Three-dimensional shape







Partition shapes into halves and fourths.

- Two-dimensional shapes can be partitioned into 2 or 4 equal parts.
 - » A shape partitioned into 2 equal parts has **halves**.
 - » A shape partitioned into 4 equal parts has **fourths**.





Each shape is split into halves.









TEKS 1.6.G, 1.6.H

Each shape is split into fourths.

Recognize and tell time in hours and half hours.

- An analog clock has an hour hand and a minute hand that move in relation to each other depending on the time.
- » The <u>hour hand</u> is shorter than the minute hand and will be pointing at a number on the hour and directly between two numbers <u>half past</u> the hour.
- » The minute hand is longer than the hour hand and will point at 12 on the hour and 6 half past the hour.



4 o'clock



♦ TEKS 1.7.E

Unit Investigation

Lesson 1 is the Unit Investigation. Students search for and describe three-dimensional shapes, or solid shapes, in their school environment to build curiosity and apply their own knowledge in a variety of ways. Use the **Caregiver Connection** to help students continue to explore the math they will see in the unit.

Caregiver Connection

Students may enjoy going on a shape hunt at home or in their community. Have students look out for solid shapes, such as cones, cubes, cylinders, and spheres.

You can ask:

- "How could you describe this shape?"
- "How are they the same? How are they different?"
- "What other objects have this same shape?"