

Curriculum Parent Overview (Grade 1)

MATHEMATICS

UNIT #8: Blocks and Buildings (3-D Geometry)

CONTENT FOCUS:

This unit develops students' ideas about the attributes of two-dimensional and three-dimensional shapes and how these attributes determine their classification. Students will observe, describe, compare, and build 3-D shapes; develop vocabulary for naming and describing main attributes of 2-D and 3-D shapes; and explore the relationship between 2-D and 3-D shapes.

UNIT FOCUS:

- Describing, identifying, and comparing attributes of 3-D shapes: In this unit, students look carefully at 3-D shapes and 2-D shapes; spending time describing and comparing them. Students describe and compare geometric solids and look for those shapes in their own environment. They use interlocking cubes to build exact replicas of given structures. They learn to draw 3-D shapes.
- Composing and decomposing 3-D shapes: Another focus of this unit is how 3-D shapes can be put together to make other shapes. Students have been exploring this idea all year using numbers and shapes. This work makes students aware of relationships among shapes.
- Relating 2-D and 3-D shapes: Students investigate the relationship between 3-D shapes and 2-D representation of those shapes. In order to match 3-D shapes to 2-D outlines, images, or drawing, students must look carefully at parts of the 3-D shape. Students construct and then draw their own 3-D buildings moving from the 3-D version to a 2-D representation of the building.

MATHEMATICAL PRACTICES:

MP6: Attend to precision.

MP7: Look for and make use of structure.

CONNECTIONS TO PREVIOUS CONTENT:

In Kindergarten, students began to observe, describe, compare, and represent the shapes they see around them. Their work with 3-D geometry focused on finding examples of 3-D shapes in the world, looking closely at 3-D shapes to describe them, using clay to make 3-D shapes. Students also come to this unit having looked closely at 2-D shapes in Unit 2.

CONNECTIONS TO FUTURE CONTENT:

In Grade 2, students continue to develop and refine many of the ideas and concepts from this unit. Their observations of 2-D and 3-D shapes are more precise, focusing almost only on defining attributes of shapes and using more precise geometric vocabulary as they describe and name their shape.

MATH AT HOME:

- Students can practice building with toys at home and drawing their representation on paper.
- Review the Math Words and Ideas videos for this unit on SavvasRealize site.

