

Grade: 4 Subject: Mathematics	Unit 10: Three-Dimensional Figures
Big Idea/Rationale:	<ul style="list-style-type: none"> • This unit builds upon the conceptual understanding of geometric figures in three dimensions and the properties of solids that students developed in previous grade levels. Students will compare and contrast the characteristics of cubes, spheres, prisms, pyramids, cylinders, and cones.
Enduring Understanding (Mastery Objective):	Students will understand that: <ul style="list-style-type: none"> • Three dimensional or solid figures have length, width, and height. Many can be described, classified, and analyzed by their faces, edges, and vertices. Many everyday objects closely approximate standard geometric solids. • Shapes can be used to describe some attributes of some solids. • Some problems can be solved by using objects to act out the action of the problem.
Essential Questions (Instructional Objective):	<ul style="list-style-type: none"> • How can you describe and classify solids? • How can you measure surface area of a solid? • What is a solid figure? • How can you describe parts of a solid figure? • How can you use objects to solve a problem?
Content (Subject Matter & Learning Objectives):	<ul style="list-style-type: none"> • Understand the relationship between circles and spheres. • Understand the relationship between squares and cubes • Identify the characteristics of prisms and cylinders. • Find the surface area of prisms. • Consolidate understanding of geometric solids. • Find patterns in the attributes of prisms and pyramids.
Standards	<ul style="list-style-type: none"> • This unit serves as a foundation and support to the Fifth Grade standards for volume and capacity.
Materials and Resources	<ul style="list-style-type: none"> • Math Expressions, Student Journals, Manipulatives, Math themed literature, BrainPop, IXL Mathematics