Unit 7 - Modeling with Equations & Measurement 9 days of Block instruction

These standards expand in all Units of Geometry to reinforce real-world

phenomena.

Unit 7	Geometry: Concepts and Connections Modeling with Equations and Measurement	Considerations or scaffolds for Support
Day 1-2	 Standard(s): G.GSR.9.1; G.MP; G.MM.1.1; G.MM.1.4 Use volume formulas for prisms, cylinders, pyramids, cones, and spheres to solve problems including right and oblique solids LT: I am learning the volume formulas for three-dimensional right and oblique solids. SC: o I can use the formulas for volume of a prism, cylinder, pyramid, cone, and sphere. o I can use and explain Cavalieri's Principle to find the volume of oblique solids. o I can find the volume of composite solids to explain real-life phenomena. 	Scaffolding throughout the lesson and applications will be provided for rigor. Students will work in pairs for turn and talk. Graphic organizers

Day 3-4	<pre>Standard(s): G.GSR.9.1; G.MP; G.MM.1.1; G.MM.1.4 Use volume formulas for prisms, cylinders, pyramids, cones, and spheres to solve problems including right and oblique solids</pre> LT:	Scaffolding throughout the lesson and applications will be provided for rigor.
	I am learning the volume formulas for three-dimensional right and oblique solids.	Students will work in pairs for turn and talk.
	 o I can use the formulas for volume of a prism, cylinder, pyramid, cone, and sphere. o I can use and explain Cavalieri's Principle to find the volume of oblique solids. o I can find the volume of composite solids to explain real-life phenomena. 	Graphic organizers

Day 5-6	<pre>Standard(s): G.GSR.9.1; G.PAR.2.3; G.MP; G.MM.1.1; G.MM.1.4 Use volume formulas for prisms, cylinders, pyramids, cones, and spheres to solve problems including right and oblique solids</pre> LT:	Scaffolding throughout the lesson and applications will be provided for rigor.
	 I am learning to compare the volumes of various solids. SC: I can use the formulas for volume of a prism, cylinder, pyramid, cone, and sphere. I can use and explain Cavalieri's Principle to find the volume of oblique solids. I can find the volume of comparise solids to cyrolein. 	Students will work in pairs for turn and talk. Graphic organizers
	 o I can find the volume of composite solids to explain real-life phenomena. o I can compare the volumes of various solids 	

Day 7-8	 Standard(s): G.GSR.9.1; G.MP; G.MM.1.1; G.MM.1.4 Use geometric shapes, their measures, and their properties to describe objects and approximate volumes. LT: I am learning to compare the volumes of various solids. SC: I can use the formulas for volume of a prism, cylinder, pyramid, cone, and sphere. I can use and explain Cavalieri's Principle to find the volume of oblique solids. I can find the volume of composite solids to explain real-life phenomena. I can compare the volumes of various solids 	Scaffolding throughout the lesson and applications will be provided for rigor. Students will work in pairs for turn and talk. Graphic organizers
Day 9-10	 Standard(s): G.GSR.9.2; G.PAR.2.3; G.MP; G.MM.1.1; G.MM.1.4 Use geometric shapes, their measures, and their properties to describe objects and approximate volumes. LT: o I am learning to describe objects and approximate the volume of geometric shapes. SC: o I can choose the appropriate geometric solid to approximate volumes of irregular objects. 	Scaffolding throughout the lesson and applications will be provided for rigor. Students will work in pairs for turn and talk. Graphic organizers

Day 11-12	 Standard(s): G.GSR.9.2; G.PAR.2.3; G.MP; G.MM.1.1; G.MM.1.4 Use geometric shapes, their measures, and their properties to describe objects and approximate volumes. LT: I am learning to describe objects and approximate the volume of geometric shapes. SC: I can choose the appropriate geometric solid to approximate volumes of irregular objects. 	
Day 13-14	 Standard(s): G.GSR.9.3; G.MM.1.1; G.MM.1.4 Apply concepts of density based on area and volume in modeling situations. LT: I am learning about density based on area and volume formulas. SC: I can choose the appropriate geometric figure or solid to approximate the density of irregular objects Lesson/Activity: Surface Area of rectangular/triangular prism and cylinder 	

Day 15-16	 Standard(s): G.GSR.9.3; G.MM.1.1; G.MM.1.4 Apply concepts of density based on area and volume in modeling situations. LT: o I am learning about density based on area and volume formulas. SC: o I can choose the appropriate geometric figure or solid to approximate the density of irregular objects 	Scaffolding throughout the lesson and applications will be provided for rigor. Students will work in pairs for turn and talk. Graphic organizers