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. **Resources:** IXL, Delta Math, Vocabulary Wall, Calculators, Chromebook	Scaffolding throughout the lesson and applications will be provided for rigor. Graphic organizers

Day 3-4	**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. **Resources:** IXL, Delta Math, Vocabulary Wall, Calculators, Chromebook	Scaffolding throughout the lesson and applications will be provided for rigor. Graphic organizers

Day 5-6	**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 **LT:** I am learning to compare the volumes of various 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. o I can compare the volumes of various solids **Resources:** Guided Notes, vocabulary wall, Delta Math, calculator, chrome book	Scaffolding throughout the lesson and applications will be provided for rigor. Graphic organizers

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**: 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. o I can compare the volumes of various solids **Resources:** Guided Notes, vocabulary wall, Delta Math, calculator, chrome book	Scaffolding throughout the lesson and applications will be provided for rigor. 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. **Resources:**	Scaffolding throughout the lesson and applications will be provided for rigor. Graphic organizers

	Guided Notes, vocabulary wall, Delta Math, calculator, chrome book	
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**: 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. **Resources:** Guided Notes, vocabulary wall, Delta Math, calculator, chrome book	

Day 1314	**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 **Resources:** Guided Notes, vocabulary wall, number diagram, Delta Math, calculator, chrome book	

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. Graphic organizers
Day 17	—---------- <u>Test Day</u> **Lesson/Activity:** Edulastic - Unit 7 Test - Equations & Measurement	