Mrs. Logan Advanced Math
Week 20: January 22-26

Module 5: Functions and Three-Dimensional Geometry
Topic D: Volume

	Monday January 22nd	Tuesday January 23rd	Wednesday January 24th	Thursday January 25th	Friday January 26th
Lesson	Lesson 18: Designing a Fish Tank	Lesson 19: Volume of Pyramids and Cones	Lesson 20: Volume of Spheres	Lesson 21: Volume of Composite Solids	Module 5 Topic D Quiz
Pages	351-362	363-380	381-396	397-406	
We will…	work in groups to choose fish and design a fish tank to accomodate them.	develop formulas for the volume of a pyramid an dthe volume of a cone by comparing pyramids to prisms and cones to cylinders.	develop and use the formula for the volume of a sphere.	use a vareity of strategies to solve problems involving volume of composite solids.	find the volume of a variety of three-dimensional solids.
Bell Ringer	Volume or Surface Area?	Right Prism and Right Pyramid	Cubes Sprint	Analyzing Composite Solids	Quiz Prep
Exit Ticket	Reflection	Pyramid and Cone Volume	Volume and Approximate Volume	Pencil Usage	Quiz Feedback
I will...	model real-world problems involving surface area and volume.	develop and use the formulas for the volume of a pyramid and a cone.	solve problems involving volumes of cylinders, cones and spheres.	find the volume of composite solids.	use the volume formula to solve problems with real-world contexts.
Reminders	Lesson 18 for a grade.		Sprint for a grade. Quality not quantity.		

State Standards	8.F.B.4Construct a function to model a linear relationship between two quantities. Determine the rate of change and initial value of the function from a description of a relationship or from two (x, y) values, including reading these from a table or from a graph. Interpret the rate of change and initial value of a linear function in terms of the situation it models, and in terms of its graph or a table of values.
	7.G.B.6Solve real-world and mathematical problems involving area, volume and surface area of two- and three-dimensional objects composed of triangles, quadrilaterals, polygons, cubes, and right prisms. (Pyramids limited to surface area only.)
	8.G.B.7Apply the Pythagorean Theorem to determine unknown side lengths in right triangles in real-world and mathematical problems in two and three dimensions.
	8.G.C.9Know the formulas for the volumes of cones, cylinders, and spheres and use them to solve real-world and mathematical problems.