<u>Topic:</u> Volume		<u>Date</u> :
Learning Objective(s)	_:	

Main Ideas/ Questions Types of Figures	 <u>Notes</u> <u>Volume</u> – Calculates the of an object (how much stuff can it hold) 	
	 <u>Prism</u> – A solid object with two identical ends and flat sides <u>Pyramid</u> – Has <i>1/3</i> the volume of a prism <u>Cylinder</u> – A solid object with two identical circles and smooth sides <u>Cone</u> – Has <i>1/3</i> the volume of a cylinder <u>Sphere</u> – Calculates the volume of a 3D circle 	
Basic Volume Formulas	Prisms/Cylinders \rightarrow Volume = (Base area)*(height)	
	Pyramids/Cones \rightarrow Volume = $\frac{1}{3}$ (Base area)*(height)	
Specific Volume Formulas		
	1. Find the volume of the figure. $2 yd \qquad 2 yd \qquad 2$	
	2. What is the volume of a square based pyramid with a base side length of 16 meters and a height of 15 meters?	

Topic: Volume

<u>Main Ideas/</u> Questions

Examples

<u>Notes</u>

Date:

- 3. A soup can has a diameter of 8 cm and height of 10.5 cm. How much soup can it hold?
- 4. If a sphere has a radius of 3 cm and a new sphere's radius is tripled. What would the new volume be of the new sphere?
- 5. If an ice cream cone has a diameter of 1 inch and is 3 inches long. How much ice cream can it hold?
- 6. If a cylinder has a base area of 144π ft² and a height of 3 ft. What is the volume of the figure?
- 7. If a prism has a base area of $80 \ cm^2$ and a height of 2.89 cm. What is the volume of the figure?