



Geometry & Measurement Student Activity

Volume

1. What does volume measure?
2. Design three containers that will hold 12 cm^3 . Record the measurements on your drawings. Determine the surface area of each container. Determine the most cost effective container to build if it costs 1 cent/ 1 cm^2 to build the containers.
3. Using paper, create 3 different sized cylinders. They each **must** have the same radius but they must have different heights. Calculate the surface area of each cylinder. Graph the results (on back side of this paper). Determine the relationship between surface area and height of cylinder. Show your work in the chart. Does any relationship exist for the dimensions and volume? If so, explain.

	Height	Radius	Surface area	Volume
Cylinder 1				
Cylinder 2				
Cylinder 3				