Math 8 Surface Area and Volume

*BIG IDEA: The relationship between surface area and volume of 3D objects can be used to describe, measure, and compare spatial relationships.*

*Learning Goals:*

1. I can calculate the volume of regular solids including rectangular prisms, triangular prisms, and cylinders.
2. I can calculate the Surface Area of regular solids including rectangular prisms, triangular prisms, and cylinders.
3. I can draw nets of 3D objects

*Formulas*

Area of a Circle  Volume of a Cylinder: $V=hπr^{2}$

Circumference of a Circle:  OR  Volume of a Triangular Prism: $V=\frac{l x w x h}{2}$

Area of a Rectangle:  Volume of a Rectangular Prism: 

Area of a Triangle  Volume of a Cube: 

Area of a Square:  SA or rectangular Prism = 2Lw + 2Lb + 2bw

 SA or Triangular Prism = SA = bh + 2Ls + Lb