Grade 8 Unit 8 Vocabulary

3-Dimensional Geometry

(8.6A, 8.6B, 8.7A, 8.7B)

<u>Prism</u> - a 3-

dimensional figure with two parallel congruent faces called bases and rectangular lateral faces.

<u>A solid object with two</u> <u>identical ends and</u> <u>rectangular sides.</u>



MATH

<u>Net</u> – a 2-dimensional representation that can be folded to form a 3-dimensional figure.

<u>A pattern that you can cut and fold to make</u> <u>a model of a solid shape.</u>



<u>Surface Area</u> – the sum of the areas of all the faces, including the bases, of a 3– dimensional figure.

<u>The total area of ALL of the sides of a</u> <u>three-dimensional object.</u>



Face	Area
Bottom	5 x 3 = 15
Тор	15
Front	5 x 2 = 10
Back	10
Right side	2 x 3 = 6
Left side	6

Total surface area = 15 + 15 + 10 + 10 + 6 + 6

= 62cm²

Lateral Surface Area - the sum of the areas of all the lateral faces, not the bases. of a 3-dimensional figure.

The total area of the sides of a threedimensional object without the bases.









Front Face

Back Face

<u>Rectanular Prism</u> – a prism with 2 congruent, parallel rectangular bases and 4 rectangular lateral faces.

<u>A prism with rectangle bases</u>



<u>Triangular Prism</u> – a prism with 2 congruent, parallel triangular bases and 3 rectangular lateral faces.

<u>A prism with triangle bases</u>



<u>Volume</u> - the measure of the amount of space inside of a solid; measured in cubic units.

<u>The amount of 3-dimensional space something</u> <u>takes up.</u>



<u>Cylinder</u>- a 3-dimensional figure with 2 congruent, parallel, circular bases connected by a curved surface.

<u>A prism with circle bases</u>

Parts of a Cylinder





<u>Cone</u> – a 3-dimensional figure with one circular base connected to its one vertex by a curved surface.

<u>A solid object that has a circular base joined to a</u> <u>point by a curved side.</u>



<u>Sphere</u> - a 3-dimensional figure that is the set of all points that are a given distance, the radius, from the center.

<u>A 3-dimensional object shaped like a ball.</u>

