

Topic: Unit 11: Surface Area and Volume of Solids (HON)

Days: 15

Subject(s): Math

Grade(s): 8th, 9th, 10th, 11th, 12th

**Key Learning: Properties and formulas of surface area and volume of solids will be understood and used.**



**Unit Essential Question(s): How are properties and formulas of the surface area and volume of solids used?**

<p><b>Concept:</b> <b>Three-Dimensional Figures</b></p>	<p><b>Concept:</b> <b>Surface Area</b></p>	<p><b>Concept:</b> <b>Volume</b></p>
<p><b>Lesson Essential Question(s):</b> How do you draw solids and identify their cross sections? (A)</p> <p>How do you identify congruent or similar solids and use their properties? (A)</p>	<p><b>Lesson Essential Question(s):</b> How do you find the lateral area and surface area of prisms and cylinders? (A)</p> <p>How do you find the lateral area and surface area of pyramids and cones? (A)</p> <p>How do you find the surface area of spheres? (A)</p>	<p><b>Lesson Essential Question(s):</b> How do you find the volumes of prisms and cylinders? (A)</p> <p>How do you find the volumes of pyramids and cones? (A)</p> <p>How do you find the volumes of spheres? (A)</p>
<p><b>Vocabulary:</b> isometric view, cross section, similar solids, congruent solids, polyhedron, regular polyhedron</p>	<p><b>Vocabulary:</b> lateral face, lateral edge, base edge, altitude, height, lateral area, axis, composite solid, regular pyramid, slant height, right cone, oblique cone, great circle, pole, hemisphere</p>	<p><b>Vocabulary:</b></p>

**Additional Information:**  
Sections: 1.7, 12.1, 12.2, 12.3, 12.4, 12.5, 12.6, 12.8 OMIT: 12.7

**Attached Document(s):**

Vocab Report for Topic: Unit 11: Surface Area and Volume of Solids  
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**Concept: Three-Dimensional Figures**

- isometric view -
- cross section -
- similar solids -
- congruent solids -
- polyhedron -
- regular polyhedron -

**Concept: Surface Area**

- lateral face -
- lateral edge -
- base edge -
- altitude -
- height -
- lateral area -
- axis -
- composite solid -
- regular pyramid -
- slant height -
- right cone -
- oblique cone -
- great circle -
- pole -
- hemisphere -