# Finding Volume and Surface Area of Three Dimensional Space Figures

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**Grade Level**: 8th
**Time Frame**: 10 hours

**Learning Outcomes**: Students will be able to find Surface Areas and Volumes for Prisms, Cylinders, Pyramids, Cones, and Spheres.

**Prerequisite Knowledge**: Students should know how to classify polygons, and be able to find area and perimeter of triangles, quadrilaterals, and circles.

**Student Materials**: cone.html, cylinder.html, rectangular_prism.html, rectangular_pyramid.html, sphere.html, triangular_prism.html, triangular_prism1.html, triangular_pyramid.html

**Teacher Materials**: cone.ggb, cylinder.ggb, rectangular_prism.ggb, rectangular_pyramid.ggb, sphere.ggb, triangular_prism.ggb, triangular_prism1.ggb, triangular_pyramid.ggb

**Technology**: Java, GeoGebra, LCD projector & student computers

**Vocabulary:** polyhedron, edge, vertex, tetrahedron, regular polyhedron, bases, lateral faces, lateral edges, prism, oblique prism, altitude, height, pyramid, height, cross-section sphere, center, great circle, cylinder, radius, right cylinder, oblique cylinder, altitude, cone

**Sunshine State Standards:** MA.B.1.4.1 MA.B.3.4.1