

## **Finding Volume and Surface Area of Three Dimensional Space Figures**

**Mr. Lewis Prisco**

[lewis.prisco@browardschools.com](mailto:lewis.prisco@browardschools.com)

**Grade Level:** 8<sup>th</sup>

**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