Lesson: Sketching Spheres

Learning objectives: the student will be able to:

• distinguish spheres from other 3-dimensional shapes
• identify attributes of a spheres
• draw 3-dimensional figures (spheres).

Overview:
The student is guided through the process of sketching a sphere using a drag and place technique. But, first there has to be that transition from 2-D to 3-D.

Classroom Management:
This can be used in large group lessons, small group, or individual assignments. Each student will move through the lesson at differing speeds. These interactive lessons lend themselves to projection on a Smartboard™ for teacher and student interactivity on the board.

Engaging Students:
Provide a variety of different types of spheres for students to see, touch and hold. These models may be purchased geometric models and/or they may be real-life examples (e.g., all types of round balls). Include if possible, a child’s see-through plastic ball with a rod (diameter) and rolling trinkets inside.

Follow-up:
Take advantage of the follow opportunities. TALK ABOUT IT! gives opportunity to learn that working with spheres has real meaning. SO WHAT has students thinking about careers that connect to earth as a sphere. DIG DEEPER looks at Euclidean and non-Euclidean Geometry.

Assessment:
Multiple-choice questions must be correctly answered in order to finish the lesson.