## Create a lesson plan for high school on 3D shapes covering Sphere, cone, cube and cylinder

Objectives:
-Students will be able to identify 3D shapes such as a Sphere, Cone, Cube, and Cylinder.
-Students will be able to describe the properties and characteristics of the 3D shapes listed above.

## Materials:

-3D shape examples (spheres, cones, cubes, and cylinders made out of paper, Styrofoam, or other non-toxic material)
-Paper and pencils
-Handout of 3D shape diagrams
Procedure:

1. Introduction (10 minutes):
-Discuss what a 3D shape is and the importance of being able to identify and differentiate between 3D shapes in the real world.
-Discuss the different types of 3D shapes (sphere, cone, cube, and cylinder) and have the students list characteristics of each one.
2. Activity (20 minutes):
-Pass out 3D shape examples to students.
-Have students describe the shapes and then draw diagrams (on paper and using pencil) of the 3D shapes.
-Have students compare and contrast between the shapes (e.g., spheres have no flat sides and cubes have six flat sides).
3. Conclusion (10 minutes):
-Have students use the 3D shape diagrams handout to identify the shapes.
-Answer any remaining questions and have students write down any conclusions they drew.
-Give a short quiz to assess student understanding.
