

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

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## 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.