

Solids

How can you describe and classify solids?

A **solid figure** has three dimensions—length, width, and height.

Solids can have curved surfaces.



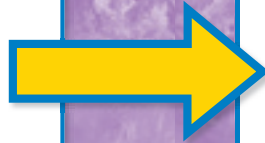
Sphere



Cylinder



Cone

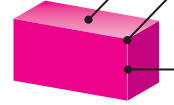


Some solids have all flat surfaces. They are named by referring to their faces.

face—flat surface of a solid

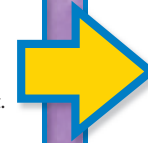
vertex—point where 3 or more edges meet. (plural: vertices)

edge—line segment where 2 faces meet.



rectangular prism

4 rectangular faces
2 square faces



cube

6 square faces



triangular prism

2 triangular faces
3 rectangular faces



rectangular pyramid

1 rectangular face
4 triangular faces



square pyramid

1 square face
4 triangular faces

- Is a solid also a polygon?
- Does a sphere have any faces?
- Does a cone have any edges?

- What is the difference between a rectangular prism and a cube?

- Why do the two pyramids in this panel have different names?
- How is a rectangular pyramid different from a triangular pyramid?