

Year 2 – Geometry – Properties of Shape

National Curriculum Aims

- identify and describe the properties of 2-D shapes, including the number of sides and line symmetry in a vertical line
- identify and describe the properties of 3-D shapes, including the number of edges, vertices and faces
- identify 2-D shapes on the surface of 3-D shapes, [for example, a circle on a cylinder and a triangle on a pyramid]
- compare and sort common 2-D and 3-D shapes and everyday objects.

Key Vocabulary

edge	The edge of a three-dimensional shape is where two or more faces meet.
face	A flat face of a polyhedron is called a face.
parallel	Lines that are parallel always stay the same distance apart and never meet.
perimeter	A perimeter is the edge of an area.
perpendicular	A perpendicular line is one at right angles to another.
polygon	A polygon is a flat shape with many straight sides.
polyhedron	A polyhedron is a many-sided solid shape with faces made from polygons.
prism	A prism is a polyhedron with matching ends.
quadrilateral	A quadrilateral is a polygon with four sides.
Right-angled	An angle of 90 degrees (90°).
surface	The surface of an object is its outer layer.
symmetry	A shape has symmetry when two or more of its parts are matching shapes.
vertex	A vertex is a point where two or more lines meet. Vertices is the plural (more than one).



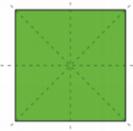
Home Learning

Where can you see 2D and 3D shapes around you? A can of baked beans is a cylinder.

Core Knowledge and Representations

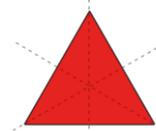
2D Shapes

Square



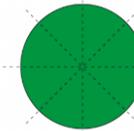
Sides: 4
Corners: 4
Symmetry: 4 lines

Equilateral Triangle



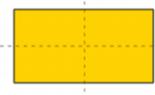
Sides: 3
Corners: 3
Symmetry: 3 lines

Circle



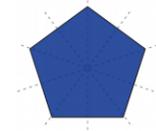
Sides: 1
Corners: 0
Symmetry: infinite

Rectangle



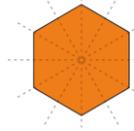
Sides: 4
Corners: 4
Symmetry: 4 lines

Regular Pentagon



Sides: 5
Corners: 5
Symmetry: 5 lines

Regular Hexagon



Sides: 6
Corners: 6
Symmetry: 6

3D Shapes

Cube



6 faces
12 edges
8 vertices

Cuboid



6 faces
12 edges
8 vertices

Sphere



1 curved face
No edges
No vertices

Triangular Based Pyramid



4 faces
6 edges
4 vertices

Triangular Prism



5 faces
9 edges
6 vertices

Square Based Pyramid



5 faces
8 edges
5 vertices

Cylinder



2 flat faces
1 curved surface
No vertices
2 curved edges

Cone



1 flat face
1 edge
1 vertex
1 curved surface