

## Maths - Year 2

### Geometry 2: Identifying the faces, edges and vertices of solid 3D shapes

#### Key Vocabulary

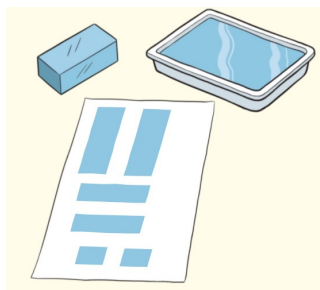
Shape names	Square, oblong, triangle, circle, cube, cuboid, pyramid, sphere, cone, cylinder.
Straight	To move in one direction only or a line that is level.
Curved	A line or side with a bend.
Face	A flat surface on a solid shape.
Edge	Where two faces of a 3D shape meet.
Vertex/Vertices	A point where two sides meet in a flat shape, or a point where three or more edges meet in a 3D shape.
Comparative language	Nearer, further, longer, shorter, larger, bigger, smaller.
Positional language	Left, right, top, middle, bottom.

#### Mathematical Skills

- Confidently and accurately name 2D and 3D shapes.
- Identify which 3D shapes could have been used to make 2D prints.
- Identify a 3D shape given certain properties e.g. the number and shape of its faces.
- Identify and count the faces, edges and vertices of a 3D shape.
- Describe 2D and 3D shapes using appropriate mathematical language, including the terms edge, face, surface, vertex/vertices.
- Read, organise and record data in a simple table.

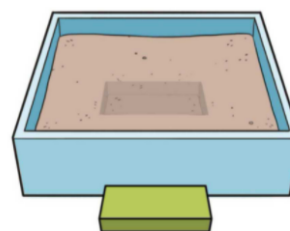
#### Mathematical Methods

- Exploring faces of solid geometric 3D shapes - printing in paint.

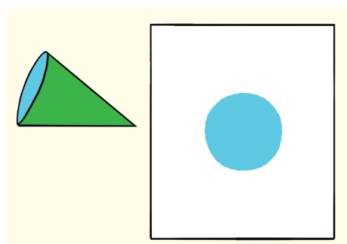


Solid geometric 3D shape	Faces
Pyramid	□ ▲ ▲ ▲ ▲
Cube	□ □ □ □ □ □ □ □
Cuboid	□ □ □ □ □ □ □ □ □ □
Cuboid	□ □ □ □ □ □ □ □ □ □

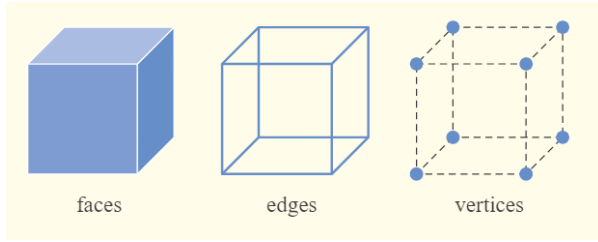
- Exploring edges of solid geometric 3D shapes - shape prints in sand.



- Exploring curved surfaces and edges of solid geometric 3D shapes - printing in paint.



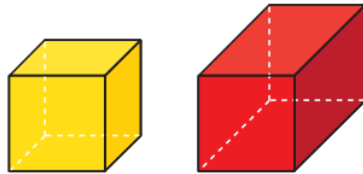
- Identifying faces, edges and vertices.



### Can you..?

- I'm thinking of a 3D shape. It has at least one face that is a circle. What could it be? Are there any other shapes it might be?

- Here is a picture of two different 3D shapes. Can you find out how many faces, edges and vertices each shape has? What do you notice?



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