Maths - Year 2

Geometry 4: Recognising and naming prisms and cylinders

Key Vocabulary

3D shapes	Prism, square prism, cube, cuboid, cylinder, cone, sphere.
Prism	A 3D shape with identical ends.
Cross-section	A view into the inside of something made by cutting through it.
Face	A flat surface on a solid shape.
Surface	The top layer of something.
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.
Side	Straight line joining the vertices of a polygon.

Mathematical Skills

- Describe and recognise a prism.
- Identify the cross-sectional shape of a prism.
- Identify and name prisms in their everyday environment.
- Sort prisms from a collection of solid geometric 3D shapes and real-life objects.
- Recognise a cube as a prism because of its square cross-section.
- Recognise oblong and square prisms as cuboids.
- Can read, organise and record data in a table.
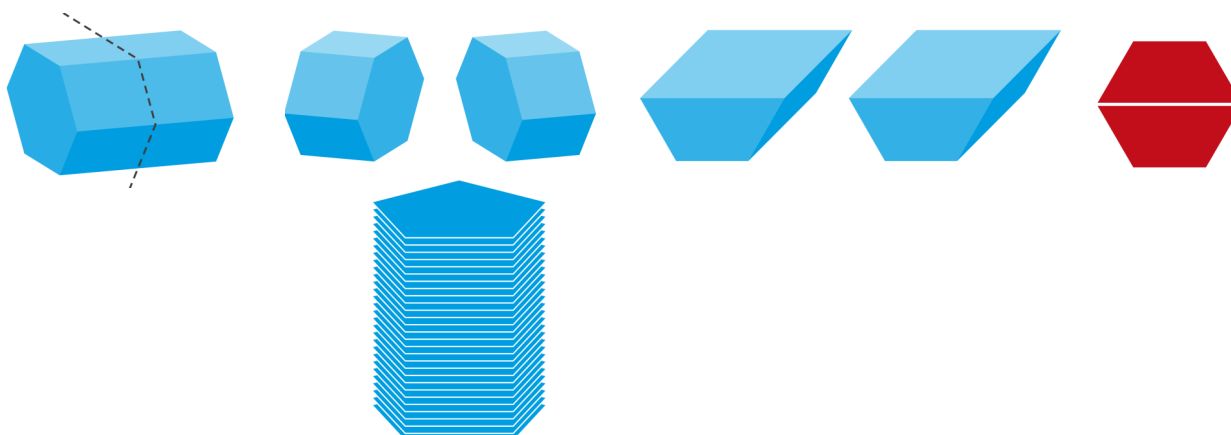
Mathematical Methods

- Investigating the solid 3D shapes of real-life objects.
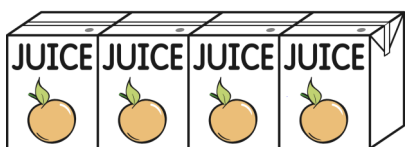
- Visualising and exploring the parts and properties of prisms.
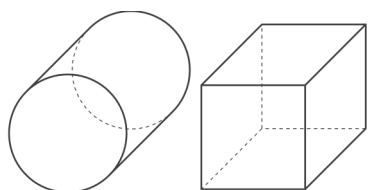
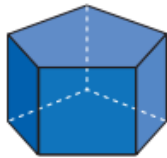- Investigating cross-sectional shapes and naming prisms.

- Investigating the faces of a prism.
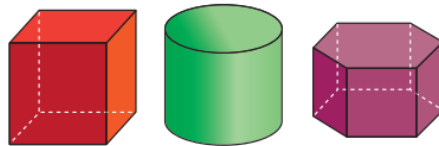
Prisms	Faces	
Pentagonal prism		$2 + 5 = 7$
Hexagonal prism		$2 + 6 = 8$

Can you..?

- Can you name this shape? If I cut each shape in half to get a cross-section, what face would you see? Can you draw these faces?

- Look at these three 3D shapes. Can you think of a reason why each of these three shapes could be the odd one out?

- Samal has sorted the shapes into prisms and non-prisms. Do you agree with her sorting? Can you explain why or why not?