Year 5 – Summer Block 2 – Properties of Shapes

WALT identify 3D shapes from 2D models.

CAL

Whoa.

WILF:

- Identify 3D shapes, including cubes and cuboids, from 2D representations.

- Identify the nets of shapes



What is a 3D shape?

How many can you think of?

Watch this video:

https://safeYouTube.net/w/XIIE



Introduction

Complete the chart using your knowledge of 3D shapes.

Name	Image	Properties
		6 faces, 12 edges and 8 vertices
		5 faces, 8 edges and 5 vertices
		3 faces, 2 edges and 0 vertices
		5 faces, 9 edges and 6 vertices



Introduction

Complete the chart using your knowledge of 3D shapes.

Name	Image	Properties
cube		6 faces, 12 edges and 8 vertices
square based pyramid		5 faces, 8 edges and 5 vertices
cylinder		2 faces, 2 edges and 0 vertices
triangular prism		5 faces, 9 edges and 6 vertices





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Varied Fluency 3

Which 3D shape does the statement describe?

My base is an octagon. I also have 8 sides which are triangles.

Varied Fluency 3

Which 3D shape does the statement describe?

My base is an octagon. I also have 8 sides which are triangles.

Octagonal pyramid

Problem Solving 1

This is one shape from the net of a 3D shape.

Name three 3D shapes you could create. List the other 2D shapes you would need to complete the shape.

Problem Solving 1

This is one shape from the net of a 3D shape.

Name three 3D shapes you could create. List the other 2D shapes you would need to complete the shape. Various possible answers including: A cube. The net would need 5 more identical squares; A square based pyramid. The net would need 4 triangles; A cuboid. The net would need 1 more identical square and 4 identical rectangles.

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Which of these 3D shapes could cast this shadow?

Square based pyramid

hexagonal prism

pentagonal prism

Explain your answer.

Which of these 3D shapes could cast this shadow?

Square based pyramid

hexagonal prism

pentagonal prism

Explain your answer. Square based pyramid because it is the only shape that has triangular faces.

Considering the properties of the shapes below, which is the odd one out?

Explain your answer.

Considering the properties of the shapes below, which is the odd one out?

Various answers relating to properties of 3D shapes, for example: Explain your answer.

The pentagonal prism because the other shapes have some triangular faces. The octagonal based pyramid because the other shapes are prisms.

