

Solve its!

Engage

$$21 + 39 =$$

$$48 - 16 =$$

$$\frac{1}{3} \text{ of } 18 =$$

$$8 \times 2 =$$

$$20 \div 2 =$$

Key Learning: to identify the properties of 3D shapes

Success Criteria:

- I can recognise and name 3D shapes.
- I understand what sides, vertices and faces are and can count them effectively.
- I can describe the properties of 3D shapes.
- I can use my understanding of 3D shapes in a game.

Star
Words

faces

vertices

cone

square based pyramid

edges

cube

cuboid

sphere

triangular prism

Introduce

Let's recap 3D shapes!





What is a 3D shape?

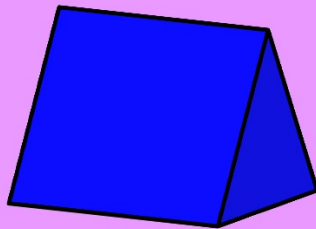
Introduce

A 3D shape is a shape which is 3 dimensional .

This means it is not flat. It has depth!



Triangle



Triangular Prism



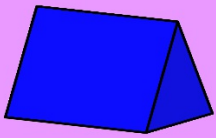
Is a triangle a 3D shape?



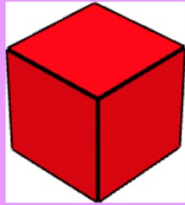
I think... because...

Can you name these 3D shapes?

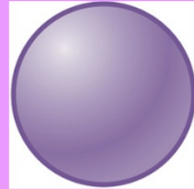
Introduce



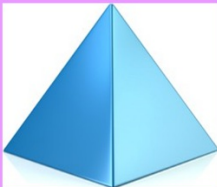
Triangular Prism



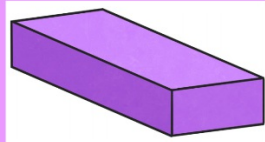
Cube



Sphere



Square based
Pyramid



Cuboid



Cone

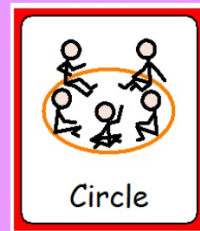
Let's play a game!

Sit in a circle around the edge of the carpet.

Pass the feely bag around the circle.

When the music stops, that child will reach in to the bag and describe the 3D shape.

Practise
and
consider

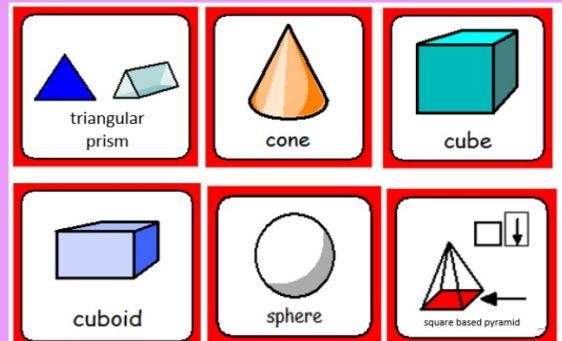


Think about the properties of that shape.

How many faces?

How many edges?

How many vertices?





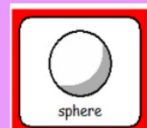
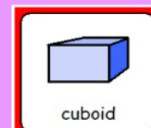
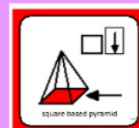
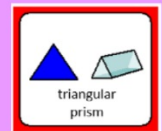
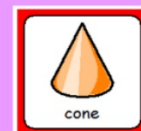
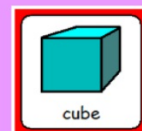
A 3D shape will have the same number of edges and vertices.

Can we find the image of the cone?

Can we label its properties?

Cone

Faces:
Edges:
Vertices:



Use your knowledge of 3D shape to make your own Top Trumps game!

<p style="text-align: center;">Sphere</p> <hr/> <p>Faces: Edges: Vertices:</p>	<p style="text-align: center;">Triangular Prism</p> <hr/> <p>Faces: Edges: Vertices:</p>
<p style="text-align: center;">Cube</p> <hr/> <p>Faces: Edges: Vertices:</p>	<p style="text-align: center;">Cuboid</p> <hr/> <p>Faces: Edges: Vertices:</p>
<p style="text-align: center;">Cone</p> <hr/> <p>Faces: Edges: Vertices:</p>	<p style="text-align: center;">Pyramid</p> <hr/> <p>Faces: Edges: Vertices:</p>

1. Cut out the 3D shapes and stick them on to the correct cards.

2. Fill out the properties for each shape.

3. Cut out your Top Trumps cards.

4. Use your cards to play Top Trumps with somebody on your table.

Teddy's 3D shape has 6 faces.
Jack says he must have a cube.
Is Jack correct? Explain your answer.

Whitney says,



I have a 3-D shape with
2 square faces and 4
rectangular faces.

What shape is Whitney thinking of?

Key Learning: to identify the
properties of 3D shapes.

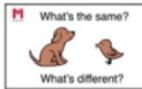
Deepening

Only one of these shapes has five faces.



Explain your answer.

True / False

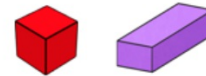


What's the same?

What's different?

What is the same?

What is different?



Look at the two shapes.