Year 2 Maths 29/06/2020

## Lesson Aims

- I can name 3D shapes
- I can talk about their properties and use the words: edge, face and vertices correctly.


## Fluency

There are 30 sweets in a packet. I eat 14 of them. How many are left?


## Fluency

There are 30 sweets in a packet. I eat 14 of them. How many are left?

$$
30-14=16
$$



## Main Teaching

What are these 3D shapes called?


## Main Teaching

What are these 3D shapes called?

Sphere


Cuboid


Square based pyramid


Cylinder


Triangular prism


Cube

## Main Teaching

Have a listen to the 3D shape song:
https://www.bbc.co.uk/bitesize/clips/ zps34wx


## Main Teaching

Lets have a look at properties of 3D shapes:

# Vertices Edges Faces 

Watch this video to help: https://www.youtube.com/watch?v=3nLpD6bE4fE

## 3D shapes

Lets remind ourselves of the properties of different 3D shapes.

## Cube



Cubes have:

- 6 square faces;
- 12 edges;
- 8 vertices;
- edges that are all the same length.


## Cuboid



Cuboids have:

- 6 rectangular faces;
- 12 edges;
. 8 vertices;
- edges that are not all the same length.


## 3D shapes

Lets remind ourselves of the properties of different 3D shapes.

## Sphere



Spheres:

- are perfectly round;
- have no edges;
- have no vertices;
- have 1 curved surface.


## Triangular Prism



Triangular prisms have:

- 5 faces;
- 2 triangular faces;
- 3 rectangular faces;
- 6 vertices;
- 9 edges.


## 3D shapes

Lets remind ourselves of the properties of different 3D shapes.

## Square-Based Pyramid

## Cylinder



Square-based pyramids have:


- a square base;
- 4 triangular faces that make a sharp point;
- 5 faces;
- 5 vertices;
- 8 edges.

Cylinders have:

- 2 flat and circular faces;
- 1 curved surface;
- no vertices;
- 2 curved edges.


## 3D shapes

Lets remind ourselves of the properties of different 3D shapes.

## Cone



## Cones have:

- 1 flat face which is a circle;
- 1 apex;
- 1 edge;
- 1 curved surface.


## Your task...

3D Shape matching game
Cut out all of the cards.
Match the picture of the 3D shape to the card with the correct number of faces/edges and vertices.


## The answers...



Cuboid


5 faces/surfaces
5 vertices
8 edges


> 1 faces/surfaces
> 0 vertices
> 0 edges


2 faces/surfaces
1 vertices
1 edges

To finish things off...

Teddy says my 3-D shape has 6 faces.
Mo says he must have a cube.
Is Mo correct?
Explain your answer.

## To finish things off...

Teddy says my 3-D shape has 6 faces.
Mo says he must have a cube.
Is Mo correct?

## Explain your answer.

No because Teddy could have a cube or a
 cuboid

