Canonbury Home Learning

Year 6 Maths

Developing activity

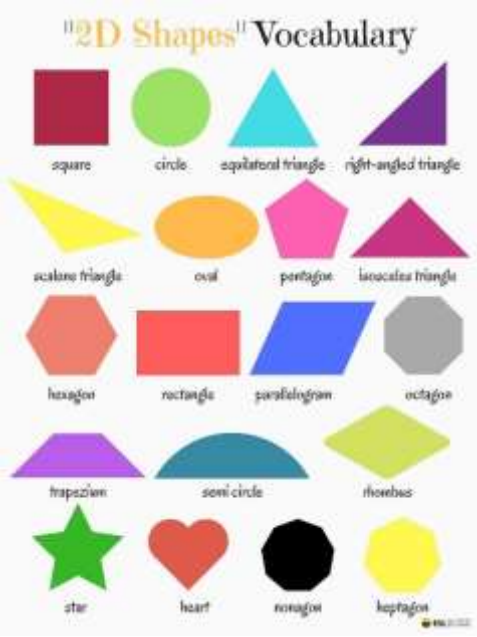
Lesson 5

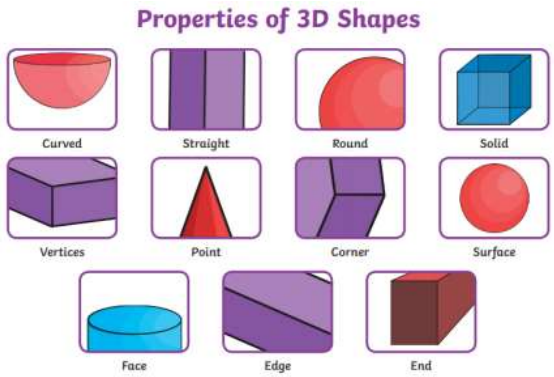
LO: TBAT describe 3D shapes.

Success Criteria:

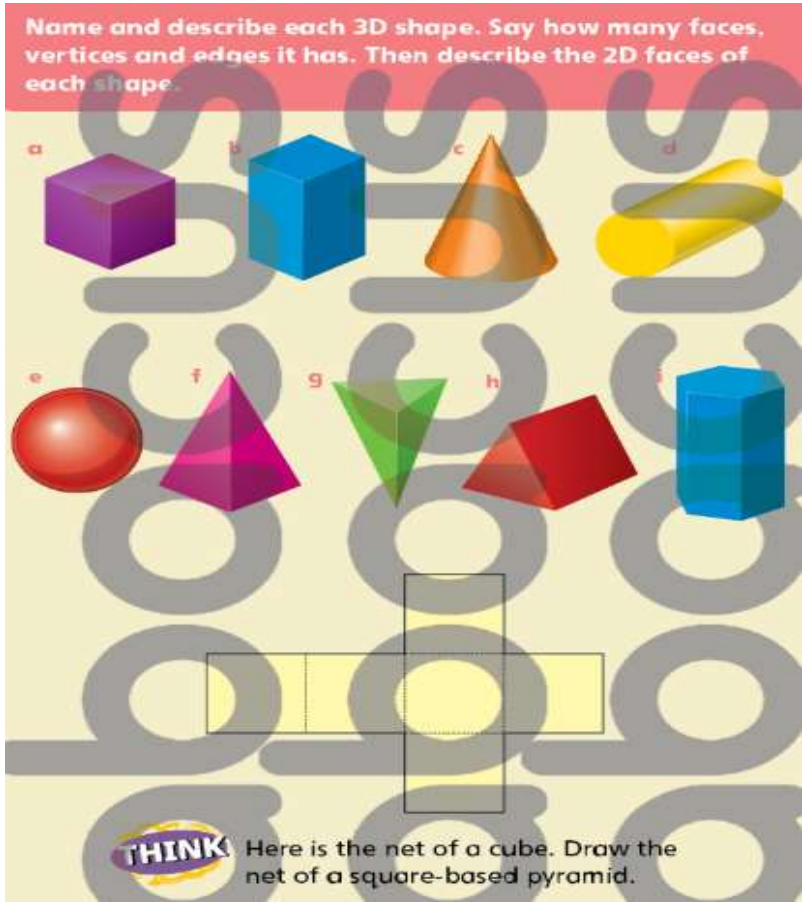
1. Recap shape vocabulary.
2. Name and describe each shape.
3. Describe the 2D faces of each 3D shape.

Model





Now you try…



Canonbury Home Learning

Year 6 Maths

Expected/ Greater depth activity

Lesson 1

LO: TBAT solve problems including 3D shapes.

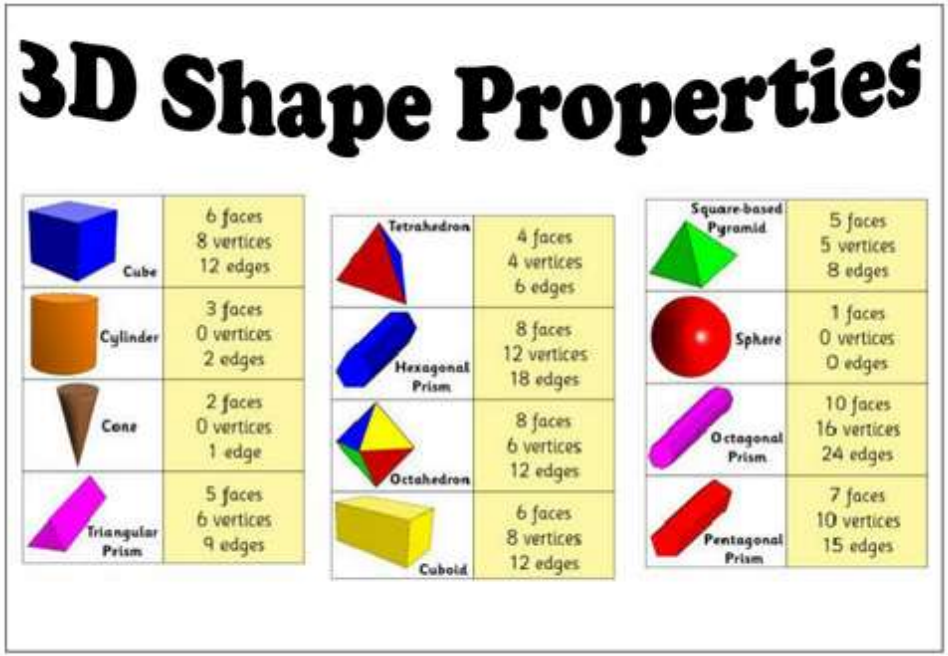
Task:

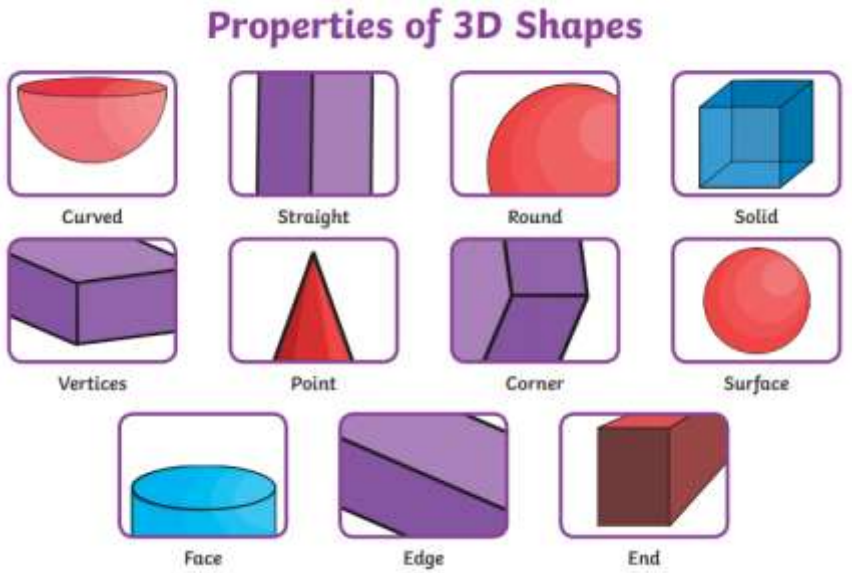
You are going apply your knowledge to solve several problems including 3D shapes.

Success Criteria:

1. **Revise your 3D shape knowledge.**
2. **Use shape properties to answer questions.**
3. **Apply your knowledge of nets to answer questions.**

Recap:





Canonbury Home Learning

Year 6 Maths

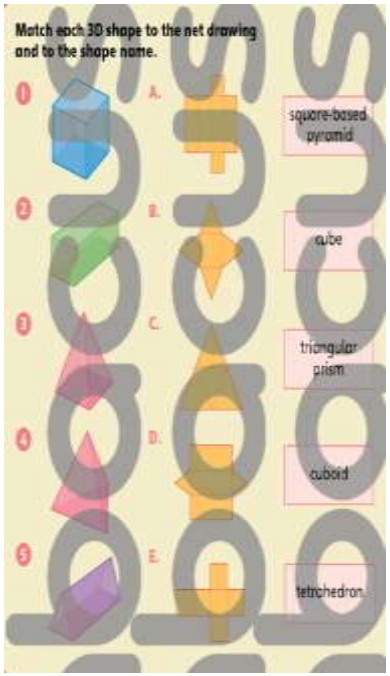
Main activity

Complete at least 2 columns, more if you can!

Task 1

Practice

Match each shape to its net and name.



Task 2

Arithmetic

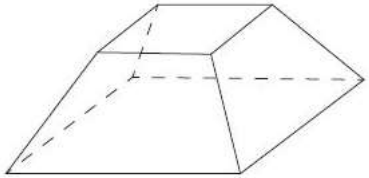
8	873 + 64 − 102 =
9	12 × 5 × 2 =
10	$\frac{1}{7}$ of 21 =
11	8013 − 394 =
12	0.06 × 100 =
13	$\frac{1}{3} = \frac{?}{15}$
14	4818 ÷ 5 =

Task 3

Problem Solving

Task 1

Here is a drawing of a 3-D shape.



Complete the table.

Number of faces	Number of vertices	Number of edges

Task 2

Mina thinks of a 3-D shape.

She says,

'It has 5 faces.
Two opposite faces are triangles.
The other faces are rectangles.'

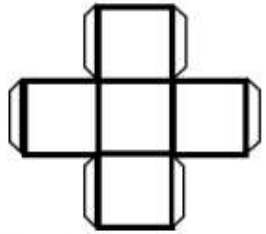
What is the name of the 3-D shape?

Task 4

Reasoning

Task 1

Dora thinks that this net will fold to create a cube.



Do you agree with Dora?
Explain your answer.

Task 2

Use Polydron to investigate how many different nets can be made for a cube.
Is there a rule you need to follow?
Can you spot an arrangement that won't work before you build it?
How do you know why it will or won't work?
Can you record your investigation systematically?

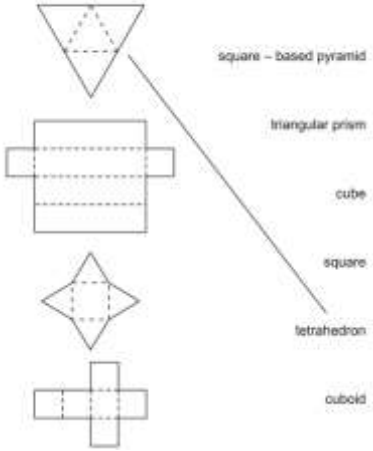
Task 3

I'm thinking of a 3-D shape.
It has a square base.
It has 4 other faces, which are triangles.

What is the name of the 3-D shape?

Task 4

These nets will fold to make 3-D shapes.
Match each net to the name of its shape.
One has been done for you.



Task 3

Here is an open box.

Which of the nets will fold together to make the box?
The grey squares show the base.