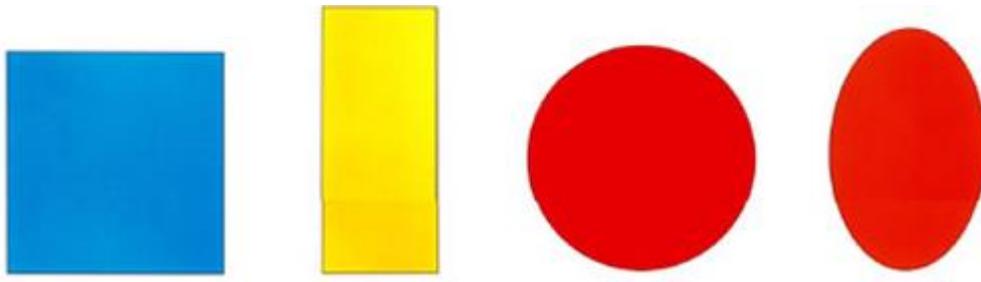Year 2   Term 3   Week 4   Maths

Focus: Names and properties of 2D shapes (revisit).

<u>Monday</u>

What do we mean by 2D and 3D shapes? A 2D shape is a shape with 2 dimensions, such as width and height; a 3D shape is a shape with 3 dimensions, such as width, height and depth.
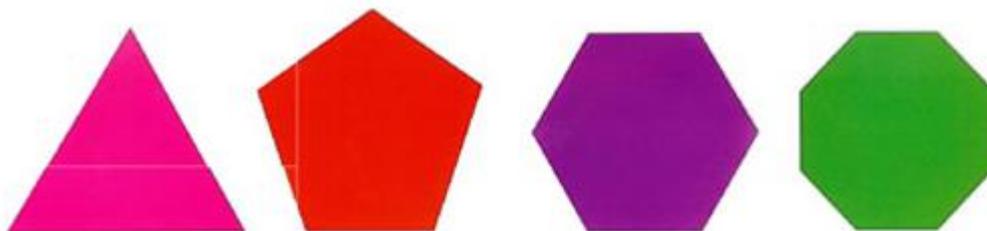
In other words, a 3D is 'fat' shape that you can pick up, whereas 2D is a 'flat' shape.

Can you identify these 2D shapes? Label them using these spellings

Circle, oval, square, rectangle

Now have a go at these:

Use these spellings to help you label them

Pentagon, octagon, hexagon.

Can you find any of these shapes around your home? Which is the most common shape?

Draw around some 3D shapes to create 2D shapes and name them. For example, you may draw around a soup can to create a circle.
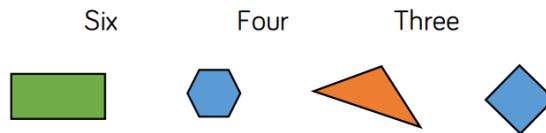
Tuesday

We can identify (name) these shapes but now we are going to look at their properties

What is a side?

How can you check that you have counted all the sides (put a mark through it)?

Do all 4 sided shapes look the same? Why do you think the shapes have the names that they do?

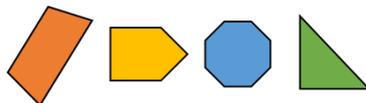' Match the shapes to the number of sides.

Six   Four   Three

' Colour the four-sided shapes.

Complete the table.

Name	Shape	Number of sides
Pentagon		
Rectangle		
Square		
Triangle		
Hexagon		

If I put these shapes into order from the smallest number of sides to the largest, which shape would come third. Where would hexagon come on the list? Why?

Wednesday

What is a vertex or vertices? A vertex is where 2 lines meet at a point. A corner is a vertex.

Match the shapes to the number of vertices.

Six   Four   Three

Colour the shapes with 4 vertices.

Complete the table.

Name	Shape	Number of vertices
Pentagon		
Rectangle		
Square		
Triangle		
Hexagon		

Amir says:

My shape has half the number of vertices as an octagon.
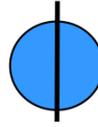
What shape could he have?

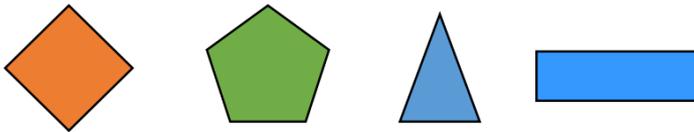Put these shapes in order based upon the number of vertices they have.
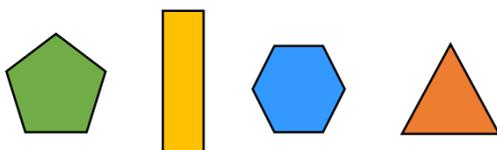
<u>**Thursday**</u>

Today, we will be exploring what we mean by a vertical line of symmetry. A vertical line of symmetry is a straight line that runs straight down an image dividing it into two identical halves.
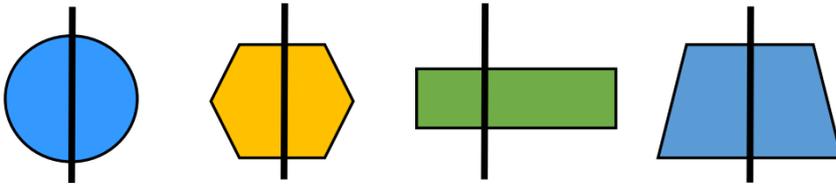
This circle has a vertical line of symmetry.

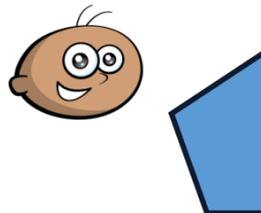Draw vertical lines of symmetry on these shapes.

Circle the shape that has the incorrect vertical line of symmetry. You may find it easier to cut out and fold the shapes.

Can you draw more than one 4-sided shape that has a vertical line of symmetry?

Tommy has placed a mirror on the vertical line of symmetry. This is what he sees. Can you complete the other half of the shape? What shape is it? How many sides and vertices does it have?

Which 2D shapes can be made when a vertical line of symmetry is drawn on a square?

Problem solving and reasoning.

Look at these shapes below. Can you remember the name of each of them?

Ron has sorted the shapes in order of number of sides. Has he done this correctly? Explain your answer.

Which shape is in the wrong set? Explain why?

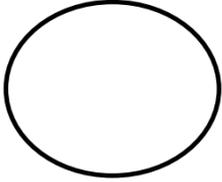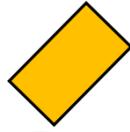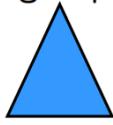| Vertical line of symmetry	No vertical line of symmetry

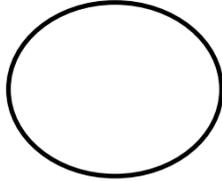Dora says that the 12th shape on this pattern will be a triangle. Is she right? Explain your answer.

Sarah sorted her shapes by the number of sides. What shape could belong to each group?

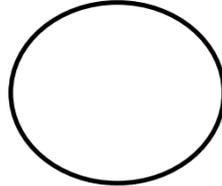| 4 sides	Not 4 sides

Sort the 2D shapes into the correct groups.

Rectangle

Triangle

Pentagon