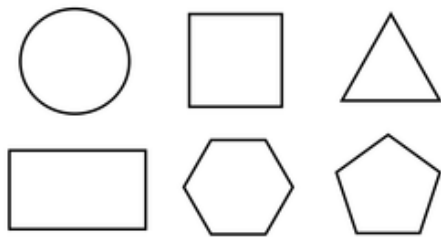


## Maths activities for Year 2

Choose from a selection of activities:

### 2D Shape Recap

Draw the following 2D shapes neatly and cut them out carefully (for some shapes you will need a ruler or you could draw round a suitable shape).



Circle

Triangle

Rectangle

Square

Pentagon

Hexagon

Octagon

Then for each shape record how many sides, vertices (corners) they have. Remember count carefully and use the following mathematical language to help **straight, curved, vertices, edges, side, equal, length, opposite.**

**E.g. a triangle is a 2D shape with 3 sides and 3 vertices. The sides don't have to be equal.**

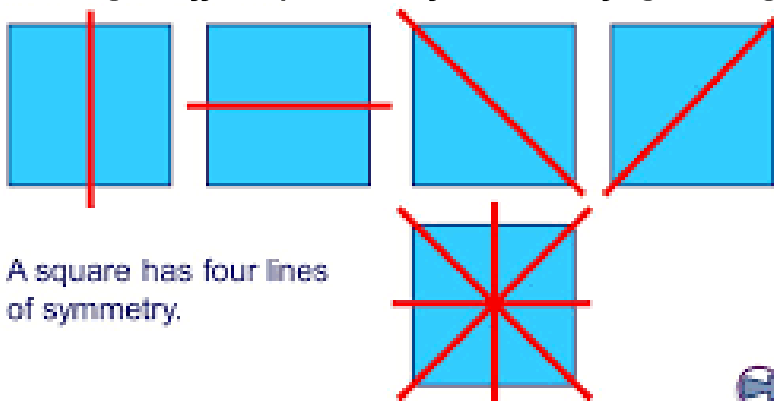
### Guess the 2D Shape:

Using mathematical language can you describe the properties of a shape to someone and see if they can guess the shape. Alternatively find 2D shapes place them in a bag (no looking) and see if you can identify the shape by touch alone.

### Symmetry Recap

Using the shapes you have already cut out, can you fold them to find lines of symmetry?

**To start you off a square has four lines of symmetry.**



A square has four lines of symmetry.

**Symmetry  
Recap  
continued**

Once you have found the lines of symmetry for all the 2D shapes can you group them according to how many lines of symmetry they have?

Can you find all the lines of symmetry for these logos?  
Remember you can use a mirror to help you!



**Symmetry  
recap  
continued**

**Symmetry Hunt:**

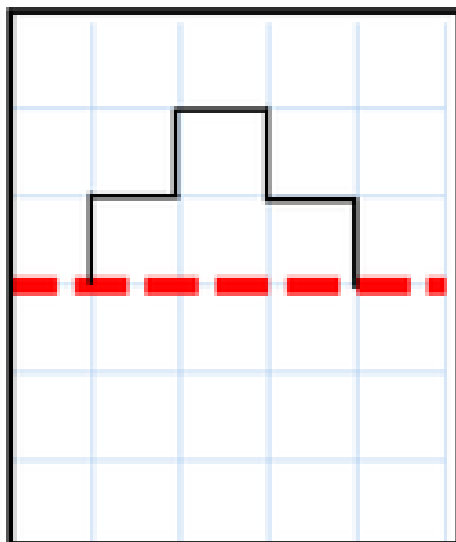
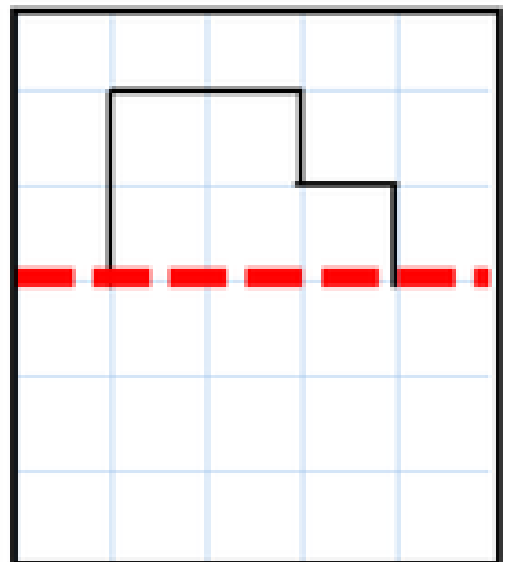
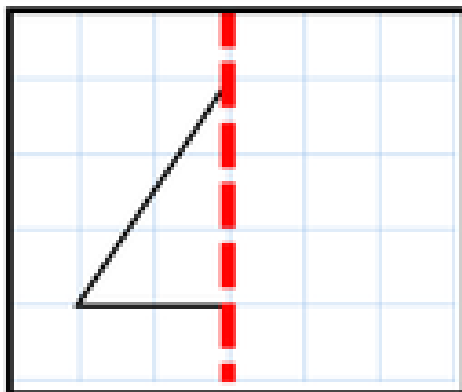
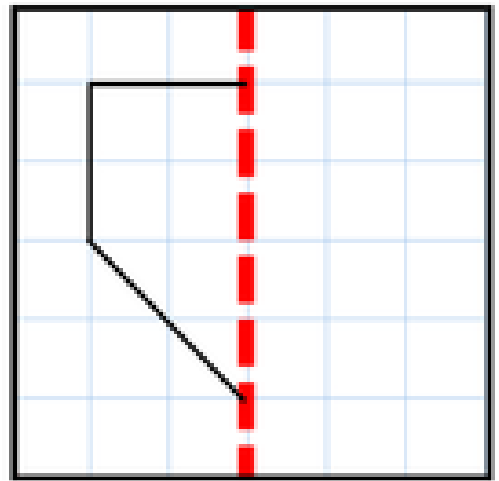
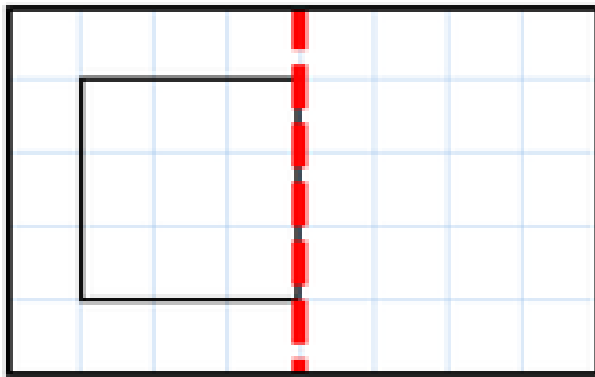
Can you find and draw 5 items around your house or garden that have lines of symmetry?

**Symmetry Drawings:**

Draw the lines of symmetry on to your picture. How many are there?

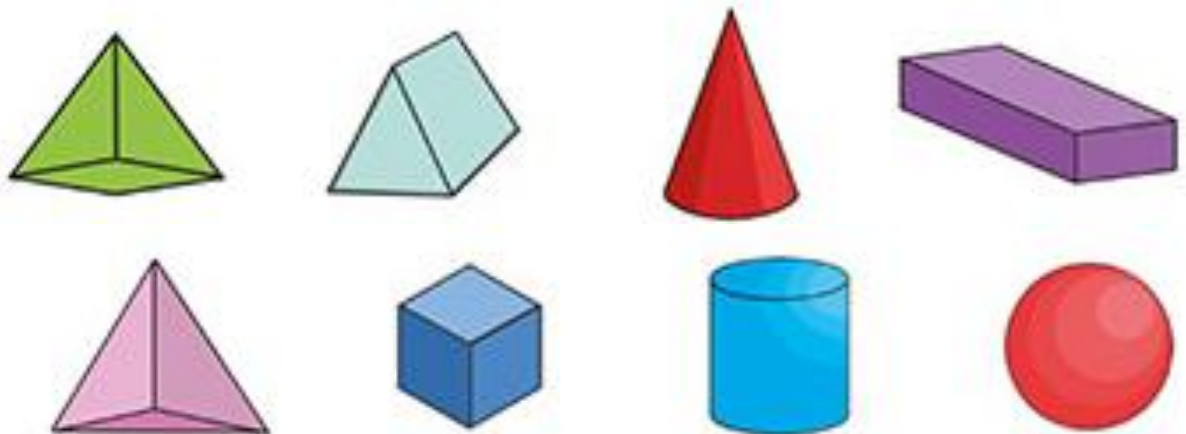
Using a mirror and a ruler can you draw the other half of the shape so that the shape is symmetrical?

**Handy Hint:** the mirror should sit along the line of symmetry.



3D  
Shapes  
Recap

## 3D Shapes



Can you name these 3D shape?  
How many faces does the 3D shape have?  
How many edges?  
How many vertices?  
Are the edges **straight**, **curved**, **equal** etc....

### Guess the 3D shape

Using mathematical language can you describe the properties of a 3D shape to someone and see if they can guess the shape. Alternatively find 3D shapes ( for example a ball for a sphere), place them in a bag (no looking) and see if you can identify the shape by touch alone.

#### Extension:

How about trying to create your own pictures just using 2D or 3D shapes?

Then ask someone to count how many different shapes they can find.

You could create using paint, card, paper or even on Purple Mash!



**Websites for Symmetry and Shape:**

<https://www.topmarks.co.uk/symmetry/symmetry-matching>

<https://www.topmarks.co.uk/symmetry/symmetry-sorting>

<https://apps.mathlearningcenter.org/geoboard/>

[https://www.nctm.org/Classroom-](https://www.nctm.org/Classroom-Resources/Illuminations/Interactives/Tessellation-Creator/)

[Resources/Illuminations/Interactives/Tessellation-Creator/](https://www.nctm.org/Classroom-Resources/Illuminations/Interactives/Tessellation-Creator/)

<https://apps.mathlearningcenter.org/pattern-shapes/>

<https://nrich.maths.org/93/note>

<https://www.bbc.co.uk/bitesize/topics/zjv39j6/resources/1>

<https://nrich.maths.org/1813/note>

Don't forget that information about how we approach teaching calculations and the methods we use in Year 2, together with handy hints and tips for additional ways to support at home are available on the school website under: Parents – Maths Curriculum Evening – Maths Curriculum Evening PPT Yr 2 Feb '20 PDF.