

MATHS

Week 2

Day 1

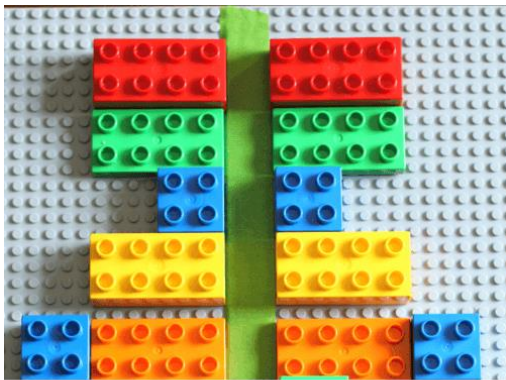
LO: To know and find lines of symmetry.

Watch

<https://www.bbc.co.uk/bitesize/clips/ztpyr82>

You're going to create a symmetrical design using things you can find around the house. Fold a piece of paper in half so that you have a line of symmetry.

Here are some ideas.



SYMMETRY WITH LEGO BRICKS



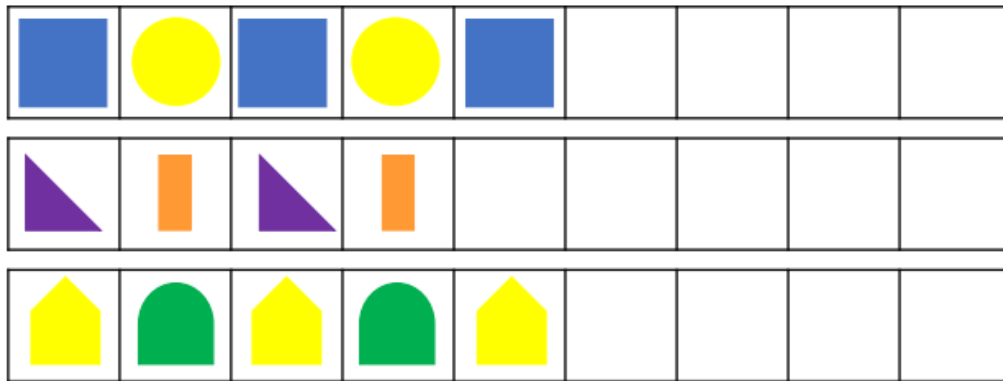
Take a picture and send it to me so I can see your symmetrical patterns.

Have a go at <https://www.topmarks.co.uk/symmetry/symmetry-sorting>

Day 2

LO: To make patterns with 2D shapes.

Draw the pattern in your *distance learning book* and continue it.



Create a repeating pattern using the instructions below.

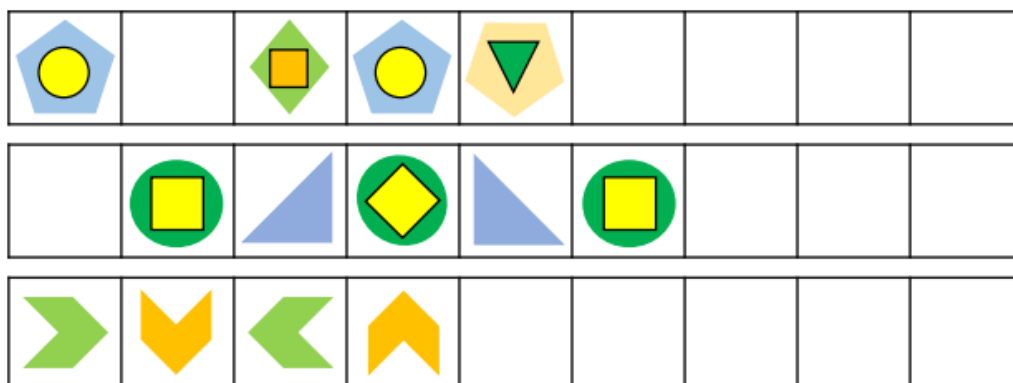
The completed pattern must have 12 shapes in total.

There must be 3 different shapes in the pattern.

There must be 6 rectangles in the completed pattern.

Extension:

See if you can complete this pattern



Play: <https://www.topmarks.co.uk/ordering-and-sequencing/shape-patterns>

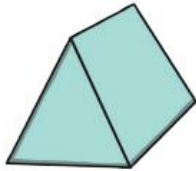
Day 3

LO: To know how many faces on a 3D shape.

3D Shapes



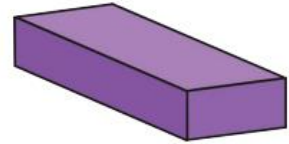
square-based pyramid



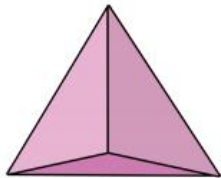
triangular prism



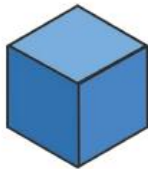
cone



cuboid



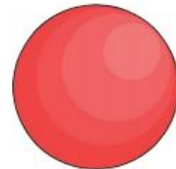
tetrahedron



cube



cylinder



sphere

Watch video on cubes and cuboids.

<https://www.bbc.co.uk/bitesize/clips/zy7xn39>





Around your home find objects that are these shapes.

Write in your *distance learning book* what the item is e.g.

Cuboid- cereal box

A face is a flat or curved surface on a 3D shape. For example a cube has six faces, a cylinder has three and a sphere has just one.

Copy and complete the grid into your distance learning books. Use the objects that you found around the house to help you count the faces.

Shape	Name	Number of faces
		
		
		
		



A cube is the only 3D shape with 6 faces.

Alex has made a mistake.

Name another 3D shape that has 6 faces.

Day 4

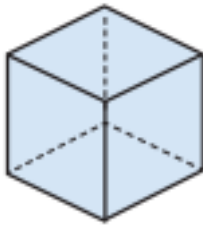
LO: To count the edges of a 3D shape.

An edge is where two faces meet. For example a cube has 12 edges, a cylinder has two and a sphere has none.

Using your shapes from around the house, work out how many edges each shape has.

How many edges does each shape have?

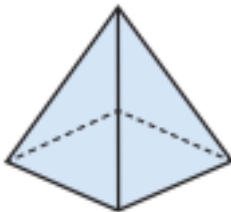
a)



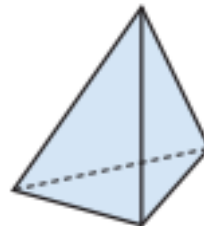
c)



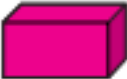



b)



d)

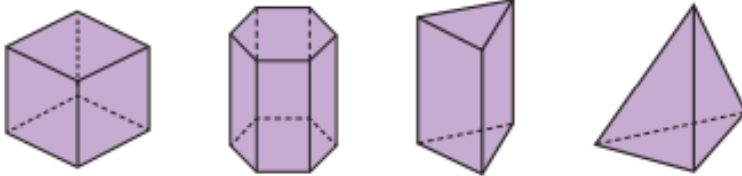


Complete the table.

Shape	Name	Number of edges	Number of faces
			
			
			
			

Challenge:

Use the clues to label the shape with the correct letter.



- Shape A has an odd number of edges.
- Shape B has the most edges.
- Shape C has the same number of edges as a cube has faces.
- The edges of shape D are all the same length.

Play:

<http://www.snappymaths.com/other/shapeandspace/3dshapes/interactive/3dshapeimm/3dshapeimm.htm>



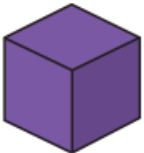

http://resources.hwb.wales.gov.uk/VTC/sorting_3d_shapes/eng/Introduction/SortShapesPop.htm

Day 5

LO: To count the vertices of a 3D shape.

A vertex is a corner where edges meet. The plural (more than one) is vertices. For example a cube has eight vertices, a cone has one vertex and a sphere has none.

Using your shapes from the days before, copy and complete the task in your distance learning books.

Shape	Name	Number of vertices
		
		
		
		

Write the name of a different 3D shape with no vertices.

Complete the sentences.

more

fewer

- a) A cube has _____ vertices than a sphere.
- b) A sphere has _____ vertices than a cone.
- c) A triangular prism has _____ vertices than a cuboid.