

Maths Home Learning – 2D and 3D Shape

4th – 8th May

Activity 1

Warm up: <https://www.youtube.com/watch?v=WTeqUejf3D0>

Can your child remember that 2D shapes are flat?

Can your child name the shapes that you hold up / show them? (You could draw your own shapes on paper or print off the 2D shapes further down in the document). Encourage your child to count the corners and sides.

Shape hunt – can your child find 2D shapes around your home, garden or out on their daily walk?

These are the shapes Mrs Pearson found at home:



Square



Circle



Triangle



Semi-circle



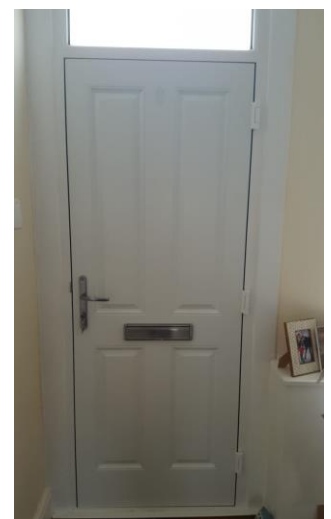
Rhombus



Oval












Hexagon



Rectangle

Can you find the same 2D shapes as me? Can you find any 2D shapes that I couldn't find? You could take photos of the shapes you find or draw them on a piece of paper. You could use the graph below to tally how many of each 2D shape you can find.

Circle 	
Square 	
Triangle 	
Rectangle 	
Rhombus 	
Oval 	
Semi-circle 	
Hexagon 	
Pentagon 	

What shape did you find the most of? Why do you think that is?

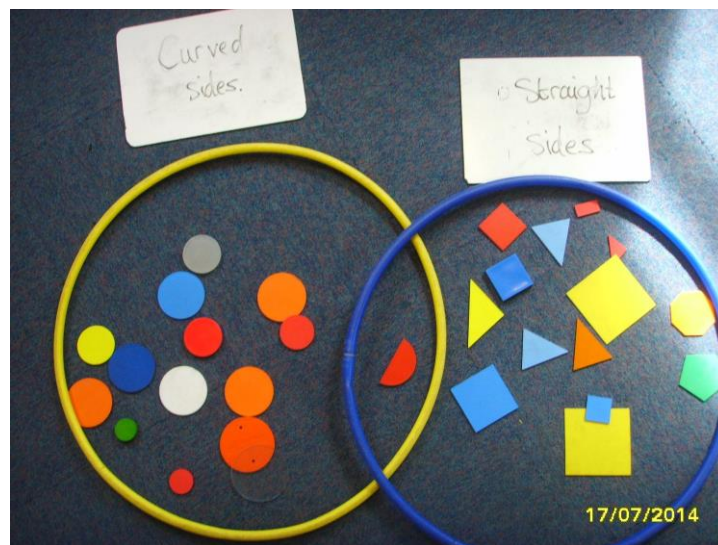
What shape did you find the least of? Why do you think that is?

Activity 2

Warm up: <https://www.youtube.com/watch?v=pfRuLS-Vnjs>

Sorting 2D shapes – how many ways can your child sort 2D shapes?

You could cut out your own shapes, find shapes around your home, or print off and cut out the shapes further down in the document.



Ideas for sorting:

Shapes with curved sides / shapes with straight sides	Shapes with 3 corners or less / shapes with more than 3 corners	Shapes with 4 sides / shapes without 4 sides	Shapes that have sides of the same length / shapes that have sides of different lengths
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Can your child think of any other ways to sort 2D shapes?

Activity 3

Warm up: <https://www.youtube.com/watch?v=guNdJ5MtX1A>

What can your child remember about 3D shapes? Can they remember the saying, “2D shapes are flat, 3D shapes are fat”? When we say this we clap our hands together on “flat” and pretend to hold a 3D shape on “fat”.

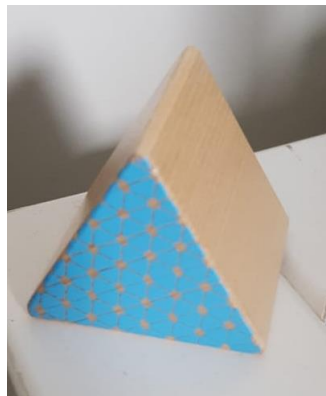
Shape hunt – what 3D shapes can your child find around your house, garden or on their daily walk?

Encourage your child to count corners/vertices and edges when they find 3D shapes. Also introduce *faces*. What 2D shapes can your child see? Eg – a cube has square faces, a cone has a circle face.

These are the 3D shapes Mrs Pearson found at home:



Cube



Triangular prism



Cone



Sphere



Semi-sphere



Cuboid



Cylinder

Activity 4

Warm up: <https://www.youtube.com/watch?v=zPZegz690Mg>

Sorting 2D and 3D shapes – can your child sort shapes in to 2D shapes and 3D shapes?

Then using the 3D shapes, can your child sort the shapes in different ways?

Ideas for sorting:

3D shapes with corners/vertices / 3D shapes without corners/vertices	3D shapes that can roll / 3D shapes that cannot roll	3D shapes that can slide / 3D shapes that cannot slide
3D shapes with square faces / 3D shapes without square faces	3D shapes with 4 edges or more / 3D shapes with less than 4 edges	3D shapes that are round / 3D shapes that are not round

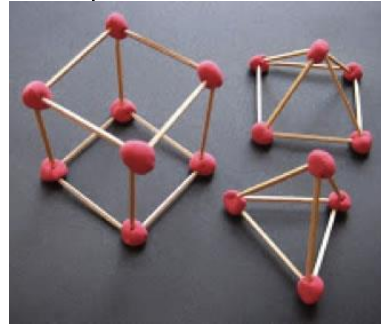
Can your child think of any other ways to sort the shapes?

Other shape activities your child might enjoy at home

Can you make 2D shapes using lollipop sticks? Pencils, crayons, twigs or tooth picks could also work.



Can you build some 3D shapes using toothpicks and Blu Tac / playdough?



Build your own city using 3D shapes.



Draw around 2D shapes to make your own pictures, or cut out 2D shapes to make a shape picture collage.



Make your own shape monsters and feed them their favourite shapes!



Shape games / activities online:

<https://www.topmarks.co.uk/maths-games/3-5-years/shape-position-and-movement>

<https://www.topmarks.co.uk/maths-games/5-7-years/shapes>

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

Make your own 3D shapes by using the nets in the link below or drawing your own.

<https://www.twinkl.co.uk/resource/t-n-2545148-3d-shape-nets-ks1-activity-sheets>

There are lots of shape activities available on the Twinkl website:

<https://www.twinkl.co.uk/resources/early-years-mathematics/early-years-shape-spaces-and-measures/early-years-2d-shapes>

<https://www.twinkl.co.uk/resources/early-years-mathematics/early-years-shape-spaces-and-measures/early-years-3d-shapes>

2D Shapes

