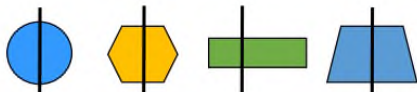


Circle the shape with an incorrect line of symmetry. Can folding help you prove your answers.



Focus: Shape

Time: 3 weeks

Times Tables 2MD-1

2x table – multiples,
missing numbers, division

R2P: 1G-1, 1G-2, 2G-1

NC

Identify and describe the properties of 2D shapes, including the number of sides and line of symmetry in a vertical line.

Identify and describe the properties of 3D shapes, including the number of edges, vertices and faces.

Identify 2D shapes on the surface of 3D shapes.

Compare and sort common 2D and 3D shapes and everyday objects.

Concept Sequence

Recognise 2D and 3D shapes – know 2D shapes are flat Show them in different orientations.

Count sides on a 2D shape – develop strategies for accurate counting like marking sides. Look at irregular shapes.

Count vertices on a 2D shape – don't use term corner.

Draw 2D shapes – use geoboards before squared paper.

Lines of symmetry – vertical lines. Look at examples that are not symmetrical too. Explore shapes being folded along their vertical line of symmetry.

Use lines of symmetry on shapes. Complete the shape.

Sort 2D shapes – sort in different ways, describe how they have been sorted and use key language of sides, vertices and symmetrical.

Count faces on 3D shapes – identify 2D shapes on faces on 3D shapes. Use strategies for accurate counting. Identify and visualise 3D shapes from 2D representations. Note: Cones have 1 face and 1 curved surface; cylinders have 2 faces and 1 curved surface; spheres have 1 curved surface).

Count edges on 3D shapes – mark to avoid over counting.

Count vertices on 3D shapes – mark to avoid over counting. The point of a cone is referred to as an apex too.

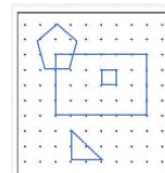
Sort 3D shapes – sort in different ways – faces, shapes of faces, edges, vertices, roll, stack.... Access real life objects to sort and compare. Match objects to shape.

Make patterns with 2D shapes – place shapes in different orientations (note a square does not become a diamond – it is still a square).

Make patterns with 3D shapes – use different orientations and range of shape examples.

Existing Vocabulary

Shape, pattern
Flat, curved, straight
Round
Hollow, solid
Sort, make, build, draw
Size, bigger, larger, smaller
Repeating pattern
Match
Corner, side
Rectangle, square, circle, triangle,
cylinder, sphere, pyramid, cone,
cube, cuboid
Face, edge
Vertex, vertices,



New Vocabulary

apex
Rectangular, circular, triangular
Pentagon, hexagon, octagon
Surface
Vertical
Line of symmetry, symmetry,
symmetrical, symmetrical pattern

Planning Links

Power Maths, Maths No Problem
Text Books/ Aspire Maths Text
Books
White Rose Scheme of Work:
<https://assets.whiterosemaths.com/new-schemes/Y2%20Autumn%20Block%203%20SOL%20Shape.pdf>

Resources

2D Shapes, 3D Shapes, Hoops, Mirrors, geoboards/elastic bands, dotted/squared paper, objects, venn diagrams
Gordons Maths Games, Mathletics, TTRockstars
BBC Super Movers <https://www.bbc.co.uk/teach/supermovers/ks1-maths-collection/z6v4scw>

