



Maths Shape, Position and Direction Learning Journey



Interpret mathematical relationships algebraically and geometrically

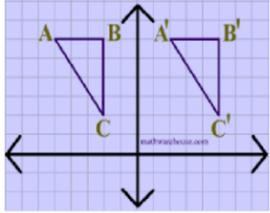
Produce scale drawings

Pythagoras theorem

Shape

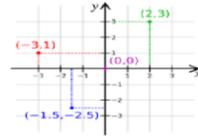
YEAR 7

Coordinate grids for negative numbers



Angles on intersecting lines and shapes

Draw quadrilaterals, triangles and nets



Coordinate grids to create polygons

Properties of shape including circles

Use algebra to describe position/movement

Describe all movements of shape

YEAR 6

Shape

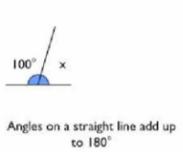
Describe translations and reflections

Position/direction

Angles in triangles and quadrilaterals

Draw quadrilaterals, triangles and nets

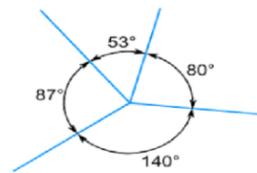
Angles on intersecting lines



Angles on a straight line add up to 180°

Angles at a point

Draw angles



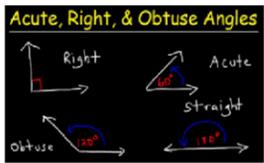
Angles on a line

Describe points

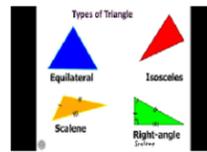
Shape/Angles

YEAR 5

Plot coordinates



Measure angles



Classify types of triangles and quadrilaterals

Describe position of a 2d shape in first quadrant

Position/direction

YEAR 4

Shape/Angles

Shape

Find angles and link to number of sides

Recognise acute, obtuse angles

Find right angles

Describe turns using angles

Know what an angle is

Perpendicular, parallel, vertical and horizontal lines

Draw 2d and 3d shapes

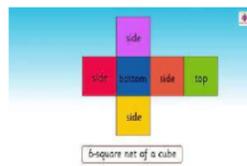
Classify using faces, edges, vertices

Construct nets and make shapes

Identify and count faces

3D

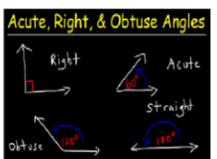
Identify properties



Describe translations

Identify and make symmetrical figures

Compare types of angles



YEAR 3

Shape

Position/direction

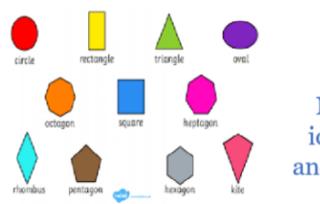
Draw shapes

Lines of symmetry

Number of vertices

Move shapes on a grid

Identify the number of sides



Turn using quarter, half and three quarter

Name and identify 2D and 3D shapes

YEAR 2

Position/direction

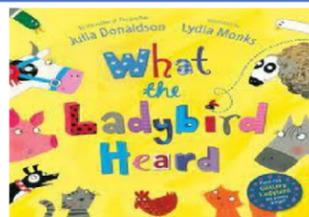
Shape

Left and right

Describe position of objects in relation to others

Make and describe turns

Describe movement using varied language



Group 2D shapes according to different criteria

Sort shapes

Recognise circle, square, triangle and rectangle

Use shapes for tasks

YEAR 1

Shape

Position

EYFS

Position

Shape

Use shape to create art

Discuss properties of 2D and 3D shapes

Name and identify common 2D and 3D shapes



Confidently use positional language



Shows interest in awareness of shape

Use positional language and describe a familiar route

Notice simple patterns and recreate patterns