

Mathematics Progression—Geometry



3-D shapes:

Recognise, describe & build simple 3-D shapes, including making nets

Angles & lines:

Recognise angles where they meet at a point, are on a straight line, or are vertically opposite, & find missing angles.

Angles & lines:

Find unknown angles in any triangles, quadrilaterals & regular polygons.

Position &

direction

Describe positions on

the full coordinate

arid (all four

Position & direction

Identify, describe & represent the position of a shape following a reflection or translation, using the appropriate language, & know that the shape has not changed.

2-D shapes:

Distinguish between regular & irregular polygons based on reasoning about equal sides & angles

2-D shapes:

Use the properties of rectangles to deduce related facts & find missing lengths & anales.

3-D shapes:

Identify 3-D shapes, including cubes & other cuboids, from 2-D representations.

Angles & lines:

Know angles are measured in degrees; estimate & compare

acute, obtuse & reflex angles.

Angles & lines:

. angles at a point & one whole turn (total 360°) angles at a point on a straight line & $\frac{1}{2}$ a turn (total 180°) other miultiples of 90°.

Year 6

2-D shapes:

Draw 2-D shapes using given dimensions & anales

2-D shapes:

Compare & classify geometric shapes based on their properties

2-D shapes:

Angles & lines:

Identify horizontal & vertical

lines & pairs of perpendicular

Illustrate & name parts of circles, including radius, diameter & circumference & know that the diameter is twice the radius

Position & direction

Draw & translate simple shapes on the coordinate plane, & reflect them in the axes

Position & direction Describe positions on a 2-D grid

as coordinates in the first

Position & direction

Year 5

Describe movements between positions as translations of a given unit to the left/right & up/down.

Position & direction

Plot specified points & draw sides to complete a given polygon.

Angles & lines:

Angles & lines:

Draw given angles& measure them in degrees.

Complete a simple symmetric figure with respect to a specific line of symmetry.

Year 4

Identify acute & obtuse angles & compare & order angles up to two riaht anales bu size.

Angles & lines:

Angles & lines:

Identify lines of symmetry in 2-D shapes presented in different orientations.

Angles & lines:

Identify right angles, recognise that two right angles make a half-turn, three make three quarters of a turn & four a complete turn; identify whether angles are greater than or less than a right angle.

Angles & lines:

Recognise angles as a property of shape or a description of a turn.

Position & direction

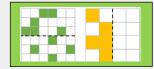
Use mathematical vocabulary to describe position, direction & movement, including movement in a straight line & distinguishing between rotation as a turn and in terms of right angles for quarter, half & three-quarter turns (clockwise & anti-clockwise).

2-D shapes: Draw 2-D shapes.

Year 3

3-D shapes:

Make 3-D shapes using modelling material; recognise 3-D shapes in different orientations & describe them.



2-D shapes:

Compare & classify geometric shapes, including quadrilaterals & triangles, based on their properties & sizes

2-D shapes:

Identify lines of symmetry in 2-D shapes presented in different orientations

Position & direction

3-D shapes: Order & arrange Compare & sort common 3-D combinations of shapes & everyday objects. mathematical objects in patterns

Year 2

Year 1

3-D shapes:

Recognise & name common 3-D shapes [e.q., cuboids (including cubes), pyramids & spheres).

2-D shapes:

Compare & sort common 2-D shapes & everyday

2-D shapes:

Identify 2-D shapes on the surface of 3-D shapes, [e.g., a circle on a cylinder & a triangle on a pyramid].

2-D shapes:

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

Position & direction

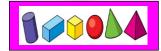
Describe position, direction & movement, including whole, half, quarter & three-quarter

2-D shapes:

Recognise & name common 2-D shapes [for example, rectangles (including squares), circles & triangles].

3-D shapes: Recognise & name common 3-D

shapes [e.g., cuboids (including cubes), pyramids & spheres].



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