



Year 3 – Maths – Geometry: Properties of Shape

Key vocabulary

quarter turn
half turn
three-quarter turn
angle
right angle
acute
obtuse
horizontal
vertical
parallel
perpendicular
polygon
two-dimensional
three-dimensional
flat face
curved surface
edge
curved edge
vertex
vertices
apex

Links to other learning

Year 2 - Identify and describe the properties of 2-D shapes, including the number of sides, and line symmetry in a vertical line; Identify and describe the properties of 3-D shapes, including the number of edges, vertices and faces; Identify 2-D shapes on the surface of 3-D shapes; Compare and sort common 2-D and 3-D shapes.

Year 4 - Compare and classify geometric shapes, including quadrilaterals and triangles; Identify acute and obtuse angles and compare and order angles up to 2 right angles by size; Identify lines of symmetry in 2-D shapes presented in different orientations; Complete a simple symmetric figure with respect to a specific line of symmetry.

Key questions

Can you programme a BeeBot to follow the description of turns?

Can you sort the angles into acute, obtuse and right angles?

Describe the properties of a cylinder.

What's the difference between a 2D and 3D shape?

Turns and angles



Angles can be used as a description of a turn.



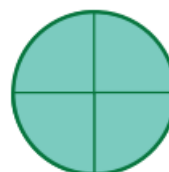
$\frac{1}{4}$ turn



$\frac{1}{2}$ turn



$\frac{3}{4}$ turn



1 turn



clockwise



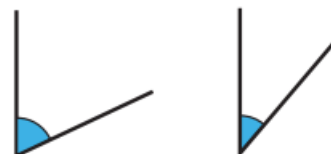
anticlockwise

An angle is created when two straight lines meet at a point or intersect.

Right Angle



Acute Angle
Less than 90°



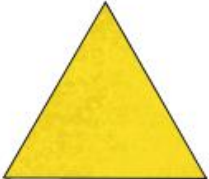
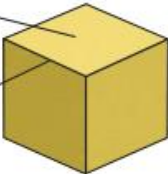
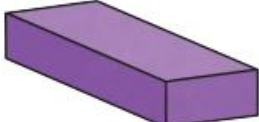
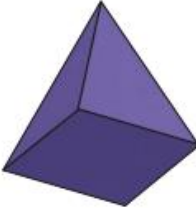
Obtuse Angle
Greater than 90° and
less than 180°



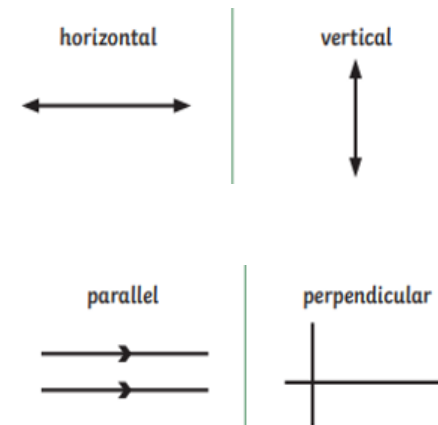
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Recognise and describe 2D and 3D shapes

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Recognise and Describe 2D Shapes	Recognise and Describe 3D Shapes
 triangle  square side vertex  rectangle  pentagon  hexagon  heptagon  octagon	 cube face edge vertices  cuboid  cylinder  square-based pyramid  tetrahedron  triangular prism  sphere

Types of lines



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