

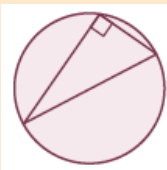
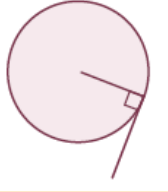
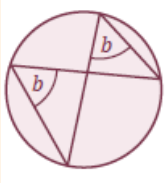
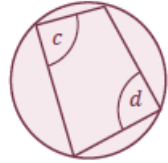
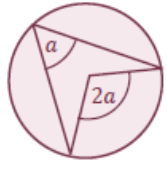
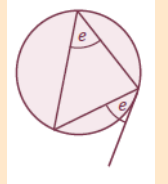
Transformations

1	Enlarge	To make a shape bigger or smaller by a given scale factor
2	Scale factor	The multiple describing how much a shape has been enlarged
3	Line of symmetry	A line that passes through the centre of a shape with a mirror image on either side
4	Reflect	Mapping of one object from one position to another of equal distance from a given line
5	Rotate	Movement around a fixed point by a certain number of degrees
6	Translation	When an object is moved from one place to another by a given vector
7	Invariant	A point that does not move after a transformation
8	Horizontal	A straight line parallel with the x-axis
9	Vertical	A straight line parallel with the y-axis

Bearings

1	Cardinal directions	North, South, East, West
2	Bearing	The angle in degrees measured clockwise from North
3	Clockwise	Moving in the direction of the hands of a clock
4	Protractor	An instrument used for measuring or drawing angles
5	Construct	To draw accurately using a compass, protractor and ruler
6	Scale	The ratio of the length of a drawing to the length of the real thing

Circle Theorems

Angle in a semicircle is 90°		Angle between radius and tangent is 90°	
Angles in the same segment are equal		Opposite angles in a cyclic quadrilateral add to 180°	
Angle at the centre is twice the angle at the circumference		Alternate segment theorem	

Volume & Surface Area

1	Volume	The amount of size within a 3D shape
2	Volume	Units - m^3, cm^3, mm^3 etc
3	Surface Area	The total areas of each face of a 3D shape
4	Prism	A 3D shape that has the same cross-section all the way along it
5	Volume of a cube/ cuboid	$length \times width \times height$
6	Volume of a prism	$area\ of\ cross\ -\ section \times length$
7	Volume of a cylinder	$\pi r^2 h$
8	Volume of a cone	$\frac{1}{3} \pi r^2 h$
9	Volume of a pyramid	$\frac{1}{3} \times area\ of\ base \times height$
10	Volume of a sphere	$\frac{4}{3} \pi r^3$