

## Construction

1	Protractor	Piece of equipment used to measure and draw angles
2	Compass	Piece of equipment used to draw circles and arcs
3	Locus	Set of points with a common property
4	Equidistant	The same distance
5	Perpendicular	Lines that meet at 90°
6	Arc	Part of a curve
7	Bisector	A line that divides something into two equal parts
8	Congruent	Exactly the same shape and size
9	Discorectangle	A rectangle with semi circles at either end

## Ratio

1	Ratio	A statement of how two numbers compare
2	Equal parts	All parts in the same proportion
3	Proportion	A statement that links two ratios
4	Part	A section of a whole
5	Equivalent	Of equal value
6	Scale	The comparison of something drawn to its actual size
7	Order	To place a number in a determined sequence

## Averages

1	Mean	Add up the values and divide by the number of values
2	Median	The middle value, when data is in order
3	Mode	The value or item that occurs the most
4	Range	The difference between the largest and smallest values

## Percentages

1	Percent	Parts per 100 – written using the % symbol
2	Decimal	Numbers to the right of the decimal point are called decimals
3	Fraction	Represents how many parts of a whole value you have
4	Multiplier	The number you are multiplying by
5	Integer	A whole number – can be positive, negative or zero
6	Increase	To make the value bigger
7	Decrease	To make the value smaller
8	Invest	Use money with the goal of it increasing in value over time
9	Profit	The income take away any expenses or costs
10	Equivalent	Of equal value

Congruency & Similarity		
1	Enlarge	To make a shape bigger or smaller by a given multiplier (scale factor)
2	Scale Factor	The multiplier of enlargement
3	Centre of enlargement	The point the shape is enlarged from
4	Similar	One shape is an enlargement of the other. All angles are the same.
5	Congruent	Exactly the same – all angles and sides are the same
6	Corresponding	Items appear in the same place in two similar situations
7	Parallel	Straight lines that never meet – gradient is the same

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	Cube/ cuboid	$length \times width \times height$
6	Prism	$area\ of\ cross - section \times length$
7	Cylinder	$\pi r^2 h$
8	Cone	$\frac{1}{3} \pi r^2 h$
9	Pyramid	$\frac{1}{3} \times area\ of\ base \times height$
10	Sphere	$\frac{4}{3} \pi r^3$

Probability		
1	Probability	The chance that something will happen
2	Relative frequency	How often something happens divide by the outcomes
3	Independent	An event that is not affected by any other events
4	Chance	The likelihood of a particular outcome
5	Event	The outcome of a probability – a set of possible outcomes
6	Biased	A built in error that makes all values wrong by a certain amount – weighted dice
7	Fair	There is zero bias and all outcomes have an equal likelihood
8	Random	Something happens by chance and is unable to predict
9	Mutually exclusive	Events that do not occur at the same time
10	Set	A collection of things