

Angles

1	Polygon	a 2D shape with straight lines
2	Scalene	A triangle with all different sides and angles
3	Isosceles	A triangle with two angles and two sides the same size
4	Right-angle	An angle that is 90 degrees
5	Acute	An angle that is less than 90 degrees
6	Obtuse	An angle that is greater than 90 degrees, but less than 180.
7	Reflex	An angle that is greater than 180 degrees, but less than 360.
8	Interior angle	Angles inside the shape
9	Protractor	Equipment used to measure angles
10	Compass	Equipment used to draw arcs and circles

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

Fractions, Decimals & Percentages

1	Fraction	How many parts of a whole we have
2	Decimal	A number with a decimal point used to separate units, tenths etc.
3	Percentage	A proportion of a whole represented as a number between 0 and 100
4	Place value	The numerical value that a digit has decided by its position in the number
5	Convert	Change into an equivalent relationship

Algebraic Notation

1	Function	A relationship that instructs how to get from an input to an output
2	Input	The number/symbol put into a function
3	Output	The number/expression that comes out of a function
4	Operation	A mathematical process
5	Inverse	The operation that undoes what was done by the previous operation
6	Substitute	Replace one variable with a number or new variable
7	Expression	A maths sentence with a minimum of two numbers and at least one operation
8	Evaluate	Work out
9	Linear	The difference between terms increases or decreases by the same value each time
10	Sequence	Items or numbers put in a pre-decided order

Year 7 Mathematics | Term 2 | Knowledge Organiser

Solving Equations			Sequences			Percentages		
1	Equality	Two expressions that have the same value	1	Sequence	Items or numbers put in a pre-decided order	1	Percent	Parts per 100 – written using the % symbol
2	Equation	A mathematical statement that two things are equal	2	Position	The place something is located	2	Decimal	Numbers to the right of the decimal point are called decimals
3	Equals	Represented by '=' symbol – means the same	3	Rule	Instructions that relate two variables	3	Fraction	Represents how many parts of a whole value you have
4	Solution	The set or value that satisfies the equation	4	Linear	The difference between terms increases or decreases by the same value each time	4	Multiplier	The number you are multiplying by
5	Solve	To find the solution	5	Non-linear	The difference between the terms increases or decreases by different amounts	5	Integer	A whole number – can be positive, negative or zero
6	Inverse	The operation that undoes what was done by the previous operation	6	Difference	The gap between two terms	6	Increase	To make the value bigger
7	Term	A single number or variable	7	Arithmetic	A sequence where the difference between the terms is constant	7	Decrease	To make the value smaller
8	Like	Variables that are the same are 'like'	8	Geometric	A sequence where each term is found by multiplying the previous one by a fixed non-zero number	8	Invest	Use money with the goal of it increasing in value over time
9	Coefficient	A multiplicative factor in front of a variable	Substitution			9	Profit	The income take away any expenses or costs
10	Expression	A maths sentence with a minimum of two numbers and at least one operation	1	Formula	A rule written using symbols that describe a relationship between different quantities	10	Equivalent	Of equal value
			2	Expression	A maths sentence with a minimum of two numbers and at least one operation			
			3	Substitute	Replace one variable with a number or new variable			