Year 8 Mathematics | Term 1 | Knowledge Organiser

Solving Equations

1	Equality	Two expressions that have the same value
2	Equation	A mathematical statement that two things are equal
3	Equals	Represented by '=' symbol – means the same
4	Solution	The set or value that satisfies the equation
5	Solve	To find the solution
6	Inverse	The operation that undoes what was done by the previous operation
7	Term	A single number or variable
8	Like	Variables that are the same are 'like'
9	Coefficient	A multiplicative factor in front of a variable
10	Expression	A maths sentence with a minimum of two numbers and at least one operation

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

Sequences

1	Sequence	Items or numbers put in a pre-decided order
2	Position	The place something is located
3	Rule	Instructions that relate two variables
4	Linear	The difference between terms increases or decreases by the same value each time
5	Non-linear	The difference between the terms increases or decreases by different amounts
6	Difference	The gap between two terms
7	Arithmetic	A sequence where the difference between the terms is constant

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