Year 8 Mathematics | Term 2 | Knowledge Organiser

Angles				Expanding & Factorising				Algebraic Notation			
1	Angle	The figure formed by two straight lines meeting	1	Expand – single bracket	bracket is multiplied by term outside the bracket	1		Function	A relationship that instructs how to get from an input to an output		
2	Polygon	a 2D shape with straight lines	2	Expand – double brackets	Every term is one bracket is multiplied by every term in the other bracket	2	2	Input	The number/symbol put into a function		
3	Regular	polygon equal and all angles are equal	3	Simplify	Collect like terms after an expansion	3	3	Output	The number/expression that		
	polygon		4	Factorise	Putting an expression into brackets				comes out of a function		
4	Parallel	Straight lines that never meet	5	HCF	Highest common factor	4	l	Operation	A mathematical process		
5	Transversal	A line that cuts across two or more other lines	6	Subject	The variable that is on its own on one side of the equals sign	5	5	Inverse	The operation that undoes what was done by the previous operation		
6	Isosceles	Two equal size lengths and angles – in a triangle or trapezium	7	Rearrange	Change the order in which	6	5	Substitute	Replace one variable with a number or new variable		
				Inequalities				Expression	A maths sentence with a minimum of two numbers and		
7	Sum	Addition – the total of all interior angles added together	1	Inequality	Compares values showing if quality one is greater, less than or				at least one operation		
					equal to		3	Evaluate	Work out		
8	Interior angle	Angles inside the	2	>	Greater than	9)	Linear	The difference between terms increases or decreases by the		
9	Protractor	shape Equipment used to measure angles	3	<	Less than				same value each time		
	Compass	Equipment used to draw arcs and circles	4	≥	Greater than or equal to	1	LO	Soguence	Itams or numbers put in a pro		
10			5	≤	Less than or equal to	1	10	Sequence	Items or numbers put in a pre- decided order		

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Solving Equations			Sequences				Algebraic Graphs			
1	Equality	Two expressions that have the same	1	Sequence	Items or numbers put in a pre-decided order	1	Co-ordinate	A set of values that show an exact position on a graph		
		value	2	Position	The place something is located			exact position on a graph		
2	Equation	A mathematical statement that two things are equal	3	Rule	Instructions that relate two variables	2	Gradient	The steepness of a line		
3	Equals	Represented by '=' symbol – means the same	4	Linear	The difference between terms increases or decreases by the same value each time	3	Intercept	Where two lines cross. The y-intercept – where the line meets the y-axis		
4	Solution	The set or value that satisfies the equation	5	Non-linear	The difference between the terms increases or decreases by different	4	Linear	Straight lines where there is a common difference between points		
5	Solve	To find the solution	6	Difference	amounts The gap between two terms	5	Parallel	Two lines that have the same		
6	Inverse	The operation that undoes what was done by the	7	Arithmetic	A sequence where the difference between the terms is constant	6	Asymptote	A straight line that a graph will never meet		
		previous operation A single number or variable	8	Geometric	A sequence where each term is found by multiplying the previous one by a fixed non-zero number	7	Reciprocal	A pair of numbers that multiply together to give 1		
7	Term									
8	Like	Variables that are								
		the same are 'like'		S	ıbstitution	8	Perpendicular	Two lines that meet at a		
9	Coefficient	A multiplicative factor in front of a variable	1	Formula	A rule written using symbols that describe a relationship		T el pellaleala.	right-angle		
		A maths sentence			between different quantities	9	Quadratic	A curved graph (parabola) with the highest power being		
10	Expression	with a minimum of two numbers and at least one operation	2	Expression	A maths sentence with a minimum of two numbers and at least one operation Replace one variable with a number or new variable			2		
						10	Parabola	A 'U' shaped graph that has a line of symmetry at its turning point		
			3	Substitute						