

Topic/Skill	Definition/Tips	Example
1. Expression	A mathematical statement written using <b>symbols, numbers</b> or <b>letters</b> ,	$3x + 2$ or $5y^2$
2. Equation	A statement showing that <b>two expressions are equal</b>	$2y - 17 = 15$
3. Identity	An equation that is <b>true for all values</b> of the variables  An identity uses the symbol: $\equiv$	$2x \equiv x+x$
4. Formula	Shows the <b>relationship</b> between <b>two or more variables</b>	Area of a rectangle = length x width or $A = L \times W$
5. Coefficient	A <b>number</b> used to <b>multiply</b> a <b>variable</b> .  It is the number that comes before/in front of a letter.	$6z$  6 is the coefficient z is the variable
6. Odds and Evens	An <b>even</b> number is a <b>multiple of 2</b> An <b>odd</b> number is an integer which is <b>not a multiple of 2</b> .	If n is an integer (whole number):  An even number can be represented by <b><math>2n</math></b> or <b><math>2m</math></b> etc.  An odd number can be represented by <b><math>2n-1</math></b> or <b><math>2n+1</math></b> or <b><math>2m+1</math></b> etc.
7. Consecutive Integers	Whole numbers that follow each other in order.	If n is an integer:  <b><math>n, n+1, n+2</math></b> etc. are consecutive integers.
8. Square Terms	A term that is produced by multiply another term by itself.	If n is an integer:  $n^2, m^2$ etc. are square integers
9. Sum	The sum of two or more numbers is the value you get when you add them together.	The sum of 4 and 6 is 10
10. Product	The product of two or more numbers is the value you get when you multiply them together.	The product of 4 and 6 is 24
11. Multiple	To show that an expression is a <b>multiple</b> of a number, you need to show that you can <b>factor out the number</b> .	$4n^2 + 8n - 12$ is a multiple of 4 because it can be written as:  $4(n^2 + 2n - 3)$