Year 7 – Maths – Autumn 2

	Unit 5 – positive and negative numbers				Unit 6 – expressions, equations and inequalities			
No.	Question	Answer	Example	No.	Question	Answer	Example	
5.1	What is an integer?	A whole number	7, 10, (-5), 123	6.1	What does 7y mean?	7 x y		
5.2	What is a positive number?	Any number greater than zero	2, 10, 150	6.2	What does ab mean?	2.Y.h		
5.3	What is a negative number?	Any number smaller than zero	(-4), (-5), -123	0.2	What does ab means			
5.4	What is absolute value of a number	The distance it is from zero	The absolute value of - 3 is 3. The absolute	6.3	What does 3uv mean?	3 x u x v		
5.5	What does > mean?	Greater than.	3 > 2	0.4	What does $\frac{\pi}{4}$ mean?	$x \div 4$		
5.6	What does < mean?	Smaller than	2 < 3	6.5	What is a term?	The separate parts of an expression	7, a, 2a, a ²	
5.7	What does = mean?	Equal to	3 = 3	6.6	What is a variable?	An unknown number represented by a letter	a, b, x, y	
5.8	How can we think of adding?	Translating a point on a number line	(-3) + 5 is translating (-3) by 5 spaces to the right	6.7	What is an expression?	A mixture of numbers and letters (no equals sign)	7a + b – 3c	
5.9	What does sum mean?	Add	The sum of 4 and 5 is 9	6.8	What does substitute mean?	Replace the letters with the numbers	a = 3, b = 5, c = 2 so a + b + c is 3 + 5 + 2 = 10	
5.10	What does subtract mean?	Take away	10 subtract 4 is 6					
5.11	What is a scale factor?	How much the number has been scaled by	$3 \times (-10) = 30$. This is stretching (-10) by a scale factor of 3	6.9	What are algebraic constants?	Like terms that have the same letter and same index	3p, 9p, -5p 4x ² 12x ² -x ²	
5.12	What is a negative scale factor?	How much the number has been scaled by in the opposite direction	$(-3) \times (-8) = (-24)$. This is stretching (-8) by a scale factor of (-3).	6.10	What does simplify mean?	Collect the like terms	2 + b + 3 + 2b = 5 + 3b	
5.13	What is commutativity?	The operation can be applied to two numbers in any order	$(-2) \times (-7) = (-14)$ $(-7) \times (-2) = (-14)$	6.11	What does expand mean?	Multiply the coefficient outside the brackets with each term inside the brackets	4(3 + x) = 12 + 4x	
5.14	What is associativity?	Grouping numbers to make the calculation easier	5 x (-18) is the same as 5 x 2 x (-9) = 10 x (-9) = 00	6.12	What does factorise mean?	Find the common factor of all the terms and divide so that it is outside the bracket	12 + 4x = 4(3 + x)	
			- 90	6.13	What is an equation?	Two things are equal to one another (equal sign and two 'sides')	7a + 1 = 8	
				6.14	What is a coefficient?	The number in front of the variable	3x (3 is the coefficient of x)	
				6.15	What is an inequality?	A symbol to compare two expressions	2x < 5x 5 > 3	
				6.16	What is the perimeter?	The total length of all the sides of a shape	$x \qquad x \qquad Perimeter = x + x + 6y \\ = 2x + 6y$	
				6.17	What does strategic mean?	Working in a logical way	Counting rows of dots instead of randomly	