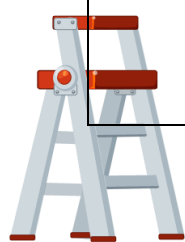
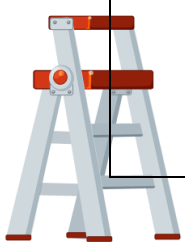
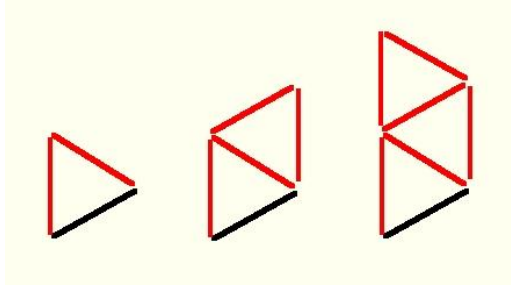


Percentage	I can ...	Prove it!
	<p>I can change the subject of a formula involving squares and square roots.</p>	<p>1) The formula for a dose of adult medicine (A) is $A = 2c^2 + 8$</p> <p>Create a formula to calculate the appropriate child's dose (c).</p>
	<p>I can factorise linear expressions. I can factorise and solve quadratics.</p>	<p>1) Factorise the linear expressions below: a) $6x + 9$ b) $10x - 5$</p> <p>2) Factorise and solve the quadratics below: a) $x^2 + 10x + 21$ b) $x^2 - x - 2$</p>
	<p>I can solve simultaneous equations. I can expand double brackets. I can solve equations with unknowns on both sides. 5.9 - I can translate real world problems into algebraic expressions. 5.10 - I can solve simple problems involving perimeter.</p>	<p>1) Solve the following: 2) $2x + 5y = 19$ $2x + 3y = 28$ $x =$ $y =$ 3) $3x + 10y = 59$ $7x - 3y = 6$ $x =$ $y =$ 4) Expand $(x + 4)(x - 4)$ 5) Solve $6x - 2 = 2x + 8$ 6) A taxi firm charges £2.50 for a pick-up and 40p for each mile travelled. Create an algebraic expression for the firm to calculate their fares.</p> <p>The perimeter of the shape below is 46cm^2. Create an equation for the shape below and find the value of s.</p>
	<p>5.7 - I can solve linear equations with one unknown 5.8 - I can form linear equations</p>	<p>1) Find the value of the letter in the equations below: $2x + 8 = 20$ $5x - 3 = 22$ $3(x - 4) = 6$</p> <p>2) Using the bar model below give an expression for x.</p>
	<p>I can solve one-step equations</p>	<p>1) Find the value of the letter in the equation: a) $x + 6 = 10$ b) $2x = 18$</p> <p>2) $x - 9 = 20$</p>
	<p>5.2 - I can find an expression for the nth term 5.6 - I can simplify expressions</p>	<p>1) Find the nth term rule for the sequence below: 5, 8, 11, 14, 17</p> <p>2) Expand the brackets below: a) $2(x + 4) =$ $3(2x - 4) =$</p> <p>3) Simplify the expressions below: a) $3x + y - x =$ b) $6x - 2 - 2x =$</p>



Percentage	I can ...	Prove it!									
	I can simplify expressions with like terms, unlike terms and coefficients	1) Explain whether the statement below is true or false: $x + x + x - x = 3x$									
	5.3 - I can generate a sequence from a rule 5.5 - I can substitute into expressions	1) List the first five terms of the sequence with the rule $5n - 1$ 2) What would be the 100 th term in the sequence above? 3) Given that: $a = 4$ $b = 3$ $c = 1$ What is the value of each of the expressions below? i) $a + 5 =$ ii) $b - 2 =$ iii) $c - 9 =$									
	4.5 - I can multiply/divide negative integers 4.6 - I can apply all four operations to negative integers	1) Solve these calculations: a) $\frac{3}{7} + \left(-\frac{2}{7}\right) =$ b) $\frac{-4}{11} + \frac{12}{5} =$ 2) Complete the multiplication grid below: <table border="1" style="display: inline-table; margin-left: 20px;"> <tr> <td style="padding: 5px;">x</td> <td style="padding: 5px;">4</td> <td style="padding: 5px;">-2</td> </tr> <tr> <td style="padding: 5px;">7</td> <td style="padding: 5px;">28</td> <td style="padding: 5px;"></td> </tr> <tr> <td style="padding: 5px;">-6</td> <td style="padding: 5px;"></td> <td style="padding: 5px;"></td> </tr> </table> 3) a) $-12 \div 6 = ?$ b) $40 \div ? = -8$ c) $-30 \div ? = 6$ 4) Place an inequality sign between the expressions below: $5c$ $c + 5$	x	4	-2	7	28		-6		
x	4	-2									
7	28										
-6											
	I can add/subtract negative decimals	1) Solve these calculations: a) $1.2 + (-2.3)$ b) $-3.5 - 4.7$ c) $-0.2 - (-10.9)$									
	4.3 - I can add and subtract negative integers 4.4 - I can use inequalities to compare calculations	1) Use a number line to sum the integers below: a) $-3 + 8 =$ b) $-4 + 2 =$ c) $0 + -5 =$ 2) Place an inequality sign between the calculations below: a) $-5 + 1$ ___ $-2 + 2$ b) $-3 - 4$ ___ $3 + (-10)$									
	4.1 - I can represent positive and negative numbers on a number line 4.2 - I can order and compare negative numbers 5.1 - I can continue and describe a number sequence	1) Place these numbers on the number line below: $3, -4, 8, 2, -1, 0$ 2) Put the numbers below in to ascending order: $-4, 0, 8, -2, -1, 2$ 3) a) What is happening in the number sequence below: $224, 244, 264, 284, \dots$ b) What will the next number in the sequence be?									





Key Words:

Expression

Equation

Sequence

Nth term

Solve

Simplify

Negative

Substitute

Expand

Factorise

Coefficient

Like term

Unlike term

Subject

