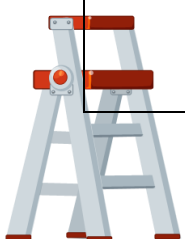



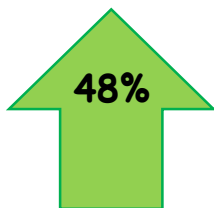
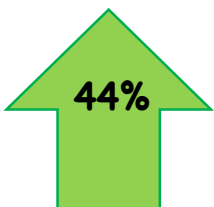
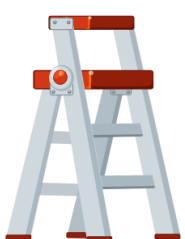



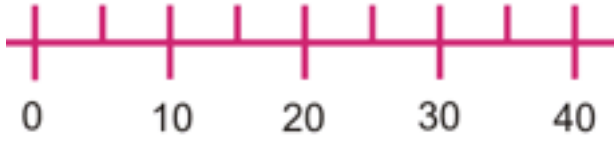


Percentage	I can ...	Prove it!
	<ul style="list-style-type: none"> <li>Find the nth term of a quadratic sequence.</li> <li>Solve simultaneous equations that include one quadratic equation.</li> </ul>	1) Here are the first four terms of a sequence, find the nth term: 4, 13, 26, 43, ... 2) What are the possible solutions for these simultaneous equations? $y = x^2 - 3$ $2y + 4x = 5$
	<ul style="list-style-type: none"> <li>Solve simultaneous equations by eliminating variables.</li> </ul>	1) Solve the following: a) $2x + 5y = 19$ $2x + 3y = 28$ $x =$ $y =$ b) $3x + 10y = 59$ $7x - 3y = 6.$ $x =$ $y =$
	<ul style="list-style-type: none"> <li>Find the nth term for a linear sequence.</li> <li>Use the nth term of a sequence to find term values.</li> <li>Change the subject of an equation.</li> </ul>	1) Find an expression that can be used to find any term in the following sequence: a) 7, 9, 11, 13 2) Find terms 2, 10 and 53 for the following sequences: a) $3n + 5$
	<b>21.1 I can use and apply algebraic expressions to problems</b>	1) If $8b + 3 = 6$ , $8b + 2 = ?$ 2) If $3 - 5y = 5$ , $(3 - 5y)^2 = ?$ 3) Expand this double bracket: $(y + 5)(y + 7)$
	<b>20.6 I can simplify algebraic expressions</b>  <b>20.4 I can solve perimeter expressions</b>	1) Simplify the expressions below a) $3x + 2y - x - y$ b) $10x + 20y + 30$  2) The perimeter of a regular hexagon is $48a + 30$ . What is the length of one of its sides?
	<b>20.5 I can use brackets in algebraic expressions</b>  <b>20.7 I can use equations in worded problems</b>	1) Factorize the expressions below $36x + 18y = 240$ $40 + 25x = 30y$ 2) Expand the following: a) $7(2x + 1)$ b) $x(8 + y)$ Find the missing length of this rectangle: <div style="text-align: center;"> <math>5d + 6</math>    <math>2d - 3</math>      .....?.....         </div>



Percentage	I can ...	Prove it!
 <p>60%</p>	<p><b>20.8 I can substitute into simple algebraic expressions</b></p> <ul style="list-style-type: none"> <li>Solve simple algebraic equations to find an unknown value.</li> <li>Suggest possible solutions to a problem with more than one solution.</li> </ul>	<p>1) If <math>x = 4</math>, and <math>y = 6</math>, what are the answers to the following:</p> <p>a) <math>3x + y</math> c) <math>2xy</math></p> <p>2) Find <math>x</math> when <math>3x - 7 = 2</math></p> <p>3) What could <math>x</math> and <math>y</math> be? <math>2x + y = 13</math></p>
 <p>56%</p>	<p><b>20.3 I can describe and write algebraic expressions</b></p> <ul style="list-style-type: none"> <li>Use algebraic notation to represent unknown values.</li> <li>Use algebraic notation to represent simple operations such as multiplication and division.</li> <li>Know the difference between equations, expressions, inequalities and terms.</li> </ul>	<p>1) I think of a number. I add 2 to the number. I divide this by 5. I then add my original number. Write an expression to represent this.</p> <p>2) How would you write this expression using algebra? b) <math>x \times x \times y \div 2</math></p> <p>3) Give an example of an equation, an expression, a term and an inequality.</p>
 <p>52%</p>	<p><b>19.3 I can use and apply BIDMAS rules in problems</b></p>	<p>1) I think of a number. I then multiply this number by 3 and subtract 7. What was my number?</p> <p>2) By adding brackets, how many different solutions can you find for this expression? <math>12 + 3 \times 5 - 4</math></p>
 <p>48%</p>	<p><b>19.1 I can use number relationships to solve problems</b></p>	<p>If <math>35 \times 42 = 1,470</math>, find:</p> <p>a) <math>3.5 \times 42</math> b) <math>3.5 \times 0.42</math> c) <math>7 \times 4.2</math></p> <p>Explain how you know.</p>
 <p>44%</p>	<p><b>19.2 I can use BIDMAS rules</b></p>	<p>1) Solve <math>12 - 4 \times 9 + 3</math></p> <p>2) Solve these:</p> <p>a) <math>8 - 3 \times 2</math> b) <math>2 \times 6 \div 3 - 1 + 5</math> c) <math>10 - 8 \div 4 + 2</math></p>



Percentage	I can ...	Prove it!
	20.2 I can use rules to create sequences	1) What is the rule that can be used to find the next term in the sequence? a) 3, 7, 15, 31 b) 1, 4, 13, 40 2) Find the missing numbers. The rule is $\times 3$ and then $+ 1$ . a) 2, 7, 22, ..., ... b) 1, ..., 13, ..., ...
	20.2 I can use rules to create sequences	1) What is the rule for this sequence? 2, 6, 10, 14, 18 2) Fill in the missing numbers: a) 7, 10, ..., ..., ... b) -9, 0, ..., ..., ... c) 27, 36, ...
	20.1 I can describe patterns in sequences	1) How big is the gap between each mark on this number line?  2) Write the next three numbers in the sequence: a) 5, 10, 15, 20, ..., ..., ... b) 3, 5, 7, 9, ..., ..., ...

**Key Words:**

- Sequence
- Operations
- Algebra
- Term
- Inequality
- Equation
- Expression
- Nth term
- Coordinates
- Solve
- Simplify
- Function machine
- Inverse

