



Autumn 1 Sept - Oct	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8
TOPIC (S)	Transition	Sequences	Sequences	Understand and Use Algebraic Notation	Understand and Use Algebraic Notation	Equality and Equivalence	Equality and Equivalence	Revision & Assessment
Knowledge & Skills development	<p><b>Sequences</b></p> <ul style="list-style-type: none"><li>Describe and continue sequences given diagrammatically</li><li>Predict and check the next terms of a sequence</li><li>Represent sequences in tabular and graphical form</li><li>Recognise the difference between linear and non-linear sequences</li><li>Continue numerical linear sequences</li><li>Continue non-linear sequences</li><li>Explain the term-to-term rule of numerical sequences in words</li><li>Find missing numbers within sequences (H)</li></ul> <p><b>Understand and Use Algebraic Notation</b></p> <ul style="list-style-type: none"><li>Use single function machines and series of two function machines with numbers, bar models and letters</li><li>Use inverse operations to find the input given the output</li><li>Use diagrams and letters to generalise number operations</li><li>Use and interpret algebraic notation</li><li>Understand and use inverse operations</li><li>Form and Substitute into expressions, including to generate sequences</li></ul> <p><b>Equality and Equivalence</b></p> <ul style="list-style-type: none"><li>Understand equality</li><li>Use fact families</li><li>Form and solve one-step equations</li><li>Understand equivalence of algebraic expressions</li><li>Collect like terms</li></ul>							
	Assessment / Feedback Opportunities	Retrieval Homework	Termly assessment	Speedy feedback for DIRT	Formative teacher assessment - verbal	Retrieval practice Warm Up		
Cultural Capital	Real life application of sequences, algebra and equality. Worded problems in various real life context.							

<b>SMSC / Promoting British Values (Democracy, Liberty, Rule of Law, Tolerance &amp; Respect)</b>		Working with unknown quantities.
<b>Reading opportunities</b>		Murderous Maths Series by Kjartan Poskitt
<b>Key Vocabulary</b>		Sequence, term, position, rule, term-to-term, table, graph, axes, linear, difference, ascending, descending, geometric, Fibonacci, arithmetic, position, function, input, output, estimate, operation, inverse, variable, coefficient, commutative, expression, evaluate, substitute, constant
<b>Digital Literacy</b>		Geogebra
<b>Careers</b>		Engineer, Shop Keeper