

Sequence	Topic title	Outline of Main Content / Objectives	Assessment(s) formative and summative (indicative)	Links to GCSE
1 6 lessons	Induction	<ul style="list-style-type: none"> • Mind-set – Four 4s • Brain Crossing – Number visuals • Speed – Paper folding • Patterns – Pascal’s Triangle • Mistakes – Growing shapes 	Baseline test (S)	
2 5 lessons	Place Value	<ul style="list-style-type: none"> • Understand mathematical language including odd, even, consecutive and integer • Apply knowledge of place value to ordering integers • Identify significant figures and round numbers to any s.f. • Round large numbers to a given number of significant figures 	End of Topic (F)	3.1 Number 3.1.1 Structure and Calculations 3.1.1.(N2) <ul style="list-style-type: none"> • Understand and use place value (eg when working with very large or very small numbers, and when calculating with decimals)
3 6 lessons	Addition and subtraction	<ul style="list-style-type: none"> • Add mentally and manipulate calculations • Add using formal methods • Subtract mentally and manipulate calculations • Subtract using formal methods 	End of Topic (F)	3.1 Number 3.1.1 Structure and Calculations 3.1.1.(N2) <ul style="list-style-type: none"> • Apply the four operations, including formal written methods, to integers.
4 9 lessons	Multiplication and Division	<ul style="list-style-type: none"> • Apply mental methods of multiplication and identify patterns in the calculations • Multiply using formal methods • Apply mental methods of division and identify patterns in the calculations • Divide using formal methods of short and long division with integers and decimals • Solve problems using multiplication and division skills 	Test (S) : 4 rules with integers	3.1 Number 3.1.1 Structure and Calculations 3.1.1.(N2) <ul style="list-style-type: none"> • Apply the four operations, including formal written methods, to integers.

<p>5 6 lessons</p>	<p>Laws of Arithmetic</p>	<ul style="list-style-type: none"> Identify and apply the commutative and associative laws Identify and apply the distributive law of multiplication Apply the rules of arithmetic to manipulate calculations and make them simpler 	<p>End of topic (F)</p>	<p>£.1 Number 3.1.1 Structure and Calculations 3.1.1.(N2)</p> <ul style="list-style-type: none"> Apply the four operations, including formal written methods, to integers, decimals and simple fractions (proper and improper), and mixed numbers – all both positive and negative
<p>2 lessons</p>	<p>CTG</p>			
<p>6 7 lessons</p>	<p>Powers and BIDMAS</p>	<ul style="list-style-type: none"> Recognise and calculate with Integer Powers Use order of operations to solve calculations 	<p>End of topic (F)</p>	<p>3.1 Numbers 3.1.1 Structure and Calculations 3.1.1.(N2)</p> <ul style="list-style-type: none"> Apply the four operations, including formal written methods, to integers, decimals and simple fractions (proper and improper), and mixed numbers – all both positive and negative <p>3.1.1.(N3)</p> <ul style="list-style-type: none"> Recognise and use relationships between operations, including inverse operations (eg cancellation to simplify calculations and expressions) use conventional notation for priority of operations, including brackets, powers, roots and reciprocals <p>3.1.1.(N6)</p> <ul style="list-style-type: none"> Use positive integer powers and associated real roots Estimate powers and roots of any given positive number
<p>7</p>	<p>Negative Numbers</p>	<ul style="list-style-type: none"> Order positive and negative integers 	<p>End of topic (F)</p>	<p>3.1 Numbers</p>

7 lessons		<ul style="list-style-type: none"> • Add and subtract positive and negative integers • Investigate patterns when adding and subtracting negative integers 		<p>3.1.1 Structure and Calculations 3.1.1.(N2)</p> <ul style="list-style-type: none"> • Apply the four operations, including formal written methods, to integers, decimals and simple fractions (proper and improper), and mixed numbers – all both positive and negative <p>3.1.1.(N3)</p> <ul style="list-style-type: none"> • Recognise and use relationships between operations, including inverse operations (eg cancellation to simplify calculations and expressions) • use conventional notation for priority of operations, including brackets, powers, roots and reciprocals
3 lessons	CTG			
Christmas Holiday				

Key Foundational skill	Covered in which part of the sequence
Place Value	Sequence 2
4 Operations & Bidmas	Sequence 3 – 6 (by Christmas)
Directed Numbers	Sequence 7