Autumn Term 1 Maths Year 7							
What? When? Why?	Lesson 1 Learning intentions (what can a student do at the end of the lesson)	Lesson 2 Learning intentions (what can a student do at the end of the lesson)	Lesson 3 Learning intentions (what can a student do at the end of the lesson)	Lesson 4 Learning intentions (what can a student do at the end of the lesson)			
Week 1 Sequences	<ul> <li>Describe and continue sequences</li> <li>Understand the difference between linear and non linear sequences.</li> </ul>	<ul> <li>Predict and check next term(s)</li> <li>Generate terms of a sequence from term to term rule.</li> </ul>	Sequences in a table and graphically • Recognise arithmetic sequences.	<ul> <li>Linear and non-linear sequences</li> <li>Move freely between different numerical, algebraic, graphical and diagrammatic representations.</li> </ul>			
Week 2	<ul> <li>Continue linear sequences</li> <li>Make and test conjectures about patterns and relationships.</li> </ul>	<ul> <li>Continue non-linear sequences</li> <li>Substitute values in expressions, rearrange and simplify expressions.</li> </ul>	<ul> <li>Explain the term-to-term rule</li> <li>Describe how sequences change from one term to the next eg. linear or non linear</li> </ul>	<ul> <li>Explain the term-to-term rule</li> <li>Find missing terms (H)</li> <li>Produce graphs of linear functions of one variable.</li> </ul>			
Week 3	<ul> <li>Given a numerical input, find the output of a single function machine</li> <li>Use function machines alongside bar modelling and letter notation.</li> </ul>	Use inverse operations to find the input given the output. Use diagrams and letters to generalise number operations Invest time in single function machines and the links to inverse operations before moving on.	Use diagrams and letters with single function machines Find the function machine given a simple expression • Move freely between different numerical, algebraic, graphical and diagrammatic representations	<ul> <li>Substitute values into single operation expressions</li> <li>Rearrange and simplify expressions whilst substituting values.</li> </ul>			
Week 4	Find numerical inputs and outputs for a series of two function machines. Use diagrams and letters with a series of two function machines	Find the function machines given a two-step expression	Substitute values into two-step expressions	Generate sequences given an algebraic rule Represent one- and two-step functions graphically			
Week 5	Understand the meaning of equality	Understand and use fact families, numerically and algebraically	Solve one-step linear equations involving +/- using inverse operations	Solve one-step linear equations involving x/÷ using inverse operations			
Week 6	Understand the meaning of like and unlike terms	Understand the meaning of equivalence	Simplify algebraic expressions by collecting like terms, using the ≡ symbol	REVIEW			
Week 7	ASSESSMENT	FEEDBACK	CALCULATED COLOURING				
Autumn Term 2							
What?	Lesson 1	Lesson 2	Lesson 3	Lesson 4			
When?	Learning intentions	Learning intentions	Learning intentions	Learning intentions			

	(what can a student do at the	(what can a student do at the	(what can a student do at the	(what can a student do at the end of the
Why?	end of the lesson)	end of the lesson)	end of the lesson)	lesson)
Week 1	Recognise the place value of	Understand and write	Work out intervals on a number	Position integers on a number line
Place Value	any number in an integer up to	integers up to one billion in	line	
	one billion	words and figures		
Week 2	Round integers to the nearest	Compare two numbers using	Order a list of integers	Find the range of a set of numbers
	power of ten	=, ≠, , ≤, ≥		
Week 3	Find the median of a set of	Understand place value for	Position decimals on a number	Compare and order any number up to one
	numbers	decimals	line	billion
Week 4	Represent any fraction as a	Represent fractions on	Identify and use simple	Understand fractions as division
: Fraction,	diagram	number lines	equivalent fractions	
Decimal				
and				
Percentage				
Equivalence				
Week 5	Convert fluently being fractions,	Explore fractions above one,	Represent any fraction as a	Represent fractions on number lines
	decimals and percentages	decimals and percentages	diagram	
Week 6	Identify and use simple	Understand fractions as	Convert fluently being	Explore fractions above one, decimals and
	equivalent fractions	division	fractions, decimals and	percentages
			percentages	
Week 7	ASSESSMENT	FEEDBACK	FUN	FUN