Year: 7
Subject: Mathematics

Term	Week	Focus	Summary	Learning Outcomes	Learning skills
Term 2.1	1	Sequences, Equations and Graphs	Simplifying and forming expressions	Develop how to write expressions using correct algebraic notation. Understand how to add, subtract, multiply and divide expressions.	• Automaticity • Meta-cognition • Resilience
	2	Sequences, Equations and Graphs	Substitution	Replacing letters in equations with numerical values to find solutions.	• Critical and logical thinking • Precision • Intellectual playfulness
	3	Sequences, Equations and Graphs	Solving linear equations	Solving one/two-step equations using a range of techniques such as bar models, function machines, and balancing scales.	• Speed and accuracy • Automaticity • Flexible thinking
	4	Sequences, Equations and Graphs	Plotting co-ordinates in all 4 quadrants	Plotting co-ordinates on graphs with negative numbers.	• Originality • Fluent thinking • Generalisation
	5	Sequences, Equations and Graphs	Plotting straight line graphs	Plotting vertical and horizontal lines. Linking knowledge of substitution to complete tables of value and using these to plot co-ordinates. Finding the midpoint of a line.	• Strategy planning • Connection finding • Self-regulation
	6	Sequences, Equations and Graphs	Sequences	- Pattern spotting - Continuing a sequence and finding the term-to-term rule - Finding missing terms within a sequence - Finding the nth term of a linear sequence - Different types of sequences (fibonacci) Determine whether a number is in a sequence by solving the nth term - justifying that if 'n' is a whole number, this is the term etc.	• Critical and logical thinking • Precision • Intellectual playfulness

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Term 2.2	**1**	Statistics	Averages	Finding the mean, mode, median and range .	• Problem solving • Fluent thinking • Generalisation
	2	Statistics	Stem and Leaf Diagrams	Draw and interpret Stem & Leaf diagrams. Find averages from stem and leaf diagrams.	• Strategy planning • Connection finding • Self regulation
	3	Statistics	Scatter Graphs	Draw and interpret scatter graphs.	• Big picture thinking • Hard working • Self regulation
	4	Probability	List outcomes for 1 or 2 events	To be able to list outcomes for 1 or 2 events.	• Problem solving • Strategy planning • Meta-cognition
	5	Probability	Probabilities add up to 1	To understand that the probabilities of all outcomes add to 1. (link to adding fractions, decimals and percentage).	• Abstraction • Problem solving • Generalisation