Year 7 Maths	Emerging	Developing	Secure	Mastery

Term 1				
Sequences	Moving towards mastering the core content of the curriculum.	Describe and continue sequences. Find the next term. Linear and non-linear sequence. Continue linear sequences. Term to term rules.	Continue non-linear sequences.	Find missing terms.
Algebraic notation and substitution	Moving towards mastering the core content of the curriculum.	One step function machines (number). Find a functional (one step). Substitution (one step.) Two step function machines (number).	One step function machines (algebra). Two step function machines (algebra). Find a function (two steps). Substitution (two step)	
Expressions and equations	Moving towards mastering the core content of the curriculum.	Equality and equivalence. Related facts. Like and unlike terms.	Solve two step equations	

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		Collect like term. Solve one step equation.		
Place value, ordering and rounding	Moving towards mastering the core content of the curriculum.	Right integers in numerals and words. Intervals on a number line. Compare and order integers. Place value for decimals. Compare and order decimals. Round to powers of 10. Round to the nearest integer.	Decimals on a number line Round to decimal places.	Powers of 10. Number is greater than one in standard form. Negative powers of 10. Numbers between zero and one in standard form.
Four operations	Moving towards mastering the core content of the curriculum.	Add and subtract integers. Add and subtract decimals Multiply and divide by 10, 100, 1000. Multiply in. Divide integers.	Multiply decimals. Divide decimals by integers.	Multiplied by 0.1 and 0.0 one. Divide by a decimal.

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		Order of Operations.		
Graphing data	Moving towards mastering the core content of the curriculum.	Pictogram. Bar chart. Dual bar Charts. Coordinates in the first quadrant. Scatter graph. Correlation. Lines of best fit.	Composite bar Charts. Time series graphs. Non-linear relationships.	
Averages and range	Moving towards mastering the core content of the curriculum.	Mode Mean Median Range	Solve problems with averages and range.	
Rounding and estimation	Moving towards mastering the core content of the curriculum.	Round to one significant figure. Estimate answers to calculations.	Round to 2 or more significant figures. Solve problems with estimation.	Understand and use error interval notation.

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Term 2				
Fractions, decimals and percentages	Moving towards mastering the core content of the curriculum.	Represent tenths and hundredths. Number line with fractions and decimals. Tenths hundredths fifths and quarters. Understand percentages Convert simple fractions, decimals and percentages. Fractions as diagrams. Fractions on a number line. Equivalent fractions. Fractions as division.	Eighths and thousandths. Convert fractions, decimals and percentages.	Fractions, decimals and percentages greater than one.
	Moving towards mastering the core content of the curriculum.	Directed number and number lines. Compare and order directed numbers.	Directed numbers and zero pair. Multiply and divide directed numbers.	

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Directed number		Calculations that cross zero. Add directed number. Subtract directed numbers.	Order of Operations with directed number. Use a calculator with directed numbers.	
Fractions and percentages of amounts	Moving towards mastering the core content of the curriculum.	Fractions of an amount. Use a fraction to find the whole. Percentages of an amount (without a calculator).	Percentage increase and decrease.	Use a percentage to find a whole. Solve problems with fractions and percentages greater than one.
Perimeter and area	Moving towards mastering the core content of the curriculum.	Convert metric units of length. Perimeter of a poly. Area of rectangles and parallel. Area of a triangle.	Perimeter and compound shape. Area of a trapezium. Solve problems with perimeter and area.	Form expressions with perimeter and area

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Term 3				
Speed, distance and time	Moving towards mastering the core content of the curriculum.	Convert between milliseconds, seconds, minutes and hour. Convert between hours, days, and years. Fraction of time. Calculate speed. Calculate time and distance.	Solve problems with timetables and table. Solve problems with time and the calendar. Solve problems with speed and distance. Interpret distance time graph. Draw distant time graph.	Calculate speed from a distant time graph.
Properties of number	Moving towards mastering the core content of the curriculum.	Multiples. Factors. Prime numbers. Write a number as a product of prime factors.	Squares cubes and a triangle number. Square root, roots and cube roots.	Explore higher powers and roots.
Add and subtract fractions	Moving towards mastering the core content of the curriculum.	Simplify a fraction. Convert between mixed numbers and improper fractions.	Add and subtract improper fractions and mixed numbers.	Use equivalent to add and subtract decimals and fractions. Add and subtract Simple algebraic fractions.

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		Add and subtract fractions with the same denominator. Add and subtract fractions and integers. Add and subtract fractions whether denominator share is a simple common multiple. Add and subtract fractions with any denominator.		Substitute and solve equations with fractions.
Angles and polygons	Moving towards mastering the core content of the curriculum.	Draw and measure lines and angles. Understand and use geometric reasoning. Angles around a point. Angles on a straight line. Vertically opposite angles Angles in a quadrilateral.	Recognise and name polygons. Solve problems with angles. Parallel and perpendicular lines.	Angles in parallel lines. Angles in a Polygon. Simple proofs