Le Rocquier Mathematics: Y7 Criteria-Led Progression Grid

Le Rocquier School
Learn, Respect and Succeed

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Excelling	• Able to understand and use a variety of mental and written methods to both add and subtract numbers with up to four digits fluently.	• Able to multiply and divide by factors. • Able to understand and use a variety of mental and written methods to both multiply and divide numbers with up to four digits. • Understanding that, given a set perimeter, a square/circle maximises the area.	• Confidently solving calculations with any operation when working with FDP greater than 1. • Solve FDP problems in context involving taught content such as perimeter and area.	• Solve algebraic problems in context involving taught content such as perimeter and area.	• Solving missing angle problems that involve algebraic equations. • Solving missing angle problems that involve FDP.	• Can select accurately appropriate graphs/charts to represent data.
Secure	• Addition and subtraction of negative numbers. • Can select and use different strategies for mental addition. • Can select and use different strategies for mental subtraction.	• Finding all factors of a number with confidence. • To find the LCM of two numbers, showing a complete method. • Multiplying a four-digit number by a two-digit number. • Dividing four-digit integers by two-digit integers	• Converting from an improper fraction to a mixed number, showing a complete method. • Converting from a mixed number into an improper fraction, showing a complete method. • Finding the whole amount from a given fraction. • Dividing fractions with an understanding of the role of the reciprocal. • Able to understand and interpret a remainder.	• Identifying different types of algebra including expressions, equations, formulae, identities and inequalities. • Identifying and writing a non-linear sequence's rule in words. • Creating a formula from written instructions.	• Know and remember the properties of different quadrilaterals. • Solving combined missing angle problems. • Solving missing angle problems that involve all four operations.	• Drawing and interpreting pie charts.
Developing	• Place value of decimals. • Estimation and rounding (with integers). • Estimation and rounding (with decimals). • Formal addition of numbers with up to 4 digits. • Formal subtraction of numbers with up to 4 digits. • Perimeter. • Addition and subtraction with money. • Place value of negative numbers.	• To be able to find the next five multiples of a number. • To find the LCM of two numbers. • To find most factors of numbers, including the HCF. • Multiplying a four-digit number by a one-digit number. • Dividing integers with up to four-digits by one-digit integers. • Dividing decimals with up to four-digits by one-digit integers. • Area of triangles. • Fluent recall of all times tables.	• Finding equivalent fractions. • Simplifying fractions. • Converting from an improper fraction to a mixed number with use of a calculator. • Converting between fractions, decimals and percentages. • Converting from a mixed number into an improper fraction with use of a calculator. • Finding FDP equivalence with values greater than 1. • Adding and subtracting fractions with different denominators. • Dividing fractions.	• Simplifying expressions through addition and subtraction with one, or more, like term(s). • Identifying different types of algebra including expressions and equations. • Simplifying expressions through multiplication and division. • Using BIDMAS to solve calculations. • Finding the input of a function machine by using the inverse. • Substituting into expressions with mixed operations. • Substituting into formulae. • Identifying and continuing linear sequences. • Identifying and writing a linear sequence's rule in words.	• Measuring and constructing angles up to 360°. • Calculating missing angles around a point. • Identifying different types of triangles by side. • Calculating missing angles within a triangle. • Calculate missing angles within common quadrilaterals.	• Drawing and interpreting pictograms. • Drawing and interpreting bar charts.
Foundation	• Place value of Integers • Use of a ruler to measure in cm and mm. • Formal addition of numbers with up to 3 digits. • Formal subtraction of numbers with up to 3 digits.	• Area of rectangles (including squares). • Area of parallelograms. • Fluent recall of 2, 3, 4, 5, 10, and 11 times tables.	• Adding and subtracting fractions with the same denominator. • Multiplying fractions. • Finding fractions of amounts. • Finding percentages of amounts.	• Simplifying expressions through addition with one like term. • Simplifying expressions through simple subtraction with one like term. • Finding the output from a function machine.	• Measuring and constructing straight lines with a ruler. • Measuring and drawing angles <90° using a protractor. • Measuring and drawing angles <180° using a protractor. • Calculating missing angles within a right-angle. • Calculating missing angles on a straight line.	• Can tell the difference between discrete and continuous data. • Drawing and interpreting tally charts.