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| **Curriculum Plan for Parents – Year 7** |

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| **Subject** | Mathematics | **Contact Person** | Mrs Shaw / Miss Riley |

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| **Half term and topic** | **Your child will learn....** | **Key Homework** | **Assessment** |
| **Autumn 1**  Calculations  Place Value  Number Properties  FDP | Formal written methods for adding, subtracting, multiplying and dividing; how to use BODMAS; place value; ordering values including decimals or negative numbers; rounding; calculations involving negative values; multiples and factors; prime numbers; square numbers and their roots; triangular numbers; fractions | Homework will be set once each week to consolidate learning and provide challenge to promote independent thought. (Homework may be revision in the run-up to a test). | September – written and mental assessments used in conjunction with KS2 results for setting purposes |
| **Autumn 2**  FDP  Algebra | Fractions (continued) and the equivalent decimals and percentages; mixed numbers; finding a fraction or a percentage of an amount; simplifying fractions; calculating with fractions; calculating with decimals; inverse relationships; introduction to algebra; write statements algebraically using letters to represent unknown variables | Homework will be set once each week to consolidate learning and provide challenge to promote independent thought. (Homework may be revision in the run-up to a test). | November – formal assessment on all work covered so far (non-calculator and calculator tests) |
| **Spring 1**  Algebra  Ratio & Proportion  Measures | Alebgra (continued); simplify algebraic expressions; solve simple linear equations; use simple formulae; use proportion to solve problems using the relative size of two quantities; cancel ratios to their simplest form; measure and use the correct units for length, mass, capacity and time; 12 and 24 hour clocks; change between different units; solve money problems | Homework will be set once each week to consolidate learning and provide challenge to promote independent thought. (Homework may be revision in the run-up to a test). | February – formal mid-year exams (non-calculator and calculator tests) |
| **Spring 2**  Sequences  Functions & Graphs  Geometry | Continue a sequence of numbers or diagrams; identify patterns and rules; plot coordinates on a graph; use function machines; generate and describe linear number sequences; recognise the names and properties of 2D and 3D shapes; identify types of angles; measure angles accurately; | Homework will be set once each week to consolidate learning and provide challenge to promote independent thought. (Homework may be revision in the run-up to a test). |  |
| **Summer 1**  Geometry  Transformations  Handling Data | Geometry (continued); parallel and perpendicular lines; calculate missing angles in triangles and quadrilaterals; symmetry; simple transformations including translations, reflections, rotations and enlargement; construct and interpret pictograms, bar charts, vertical line graphs, stem & leaf diagrams; calculate the averages and range for a set of data | Homework will be set once each week to consolidate learning and provide challenge to promote independent thought. (Homework may be revision in the run-up to a test). |  |
| **Summer 2**  Probability  Revision of all topics | Introduction to probability; understand and use the probability scale; discuss the likelihood of particular events using correct mathematical terminology; use simple fractions and decimals to describe probability; | Homework will be set once each week to consolidate learning and provide challenge to promote independent thought. (Homework may be revision in the run-up to a test). | June – formal end-of-year exams on all topics covered during the year (calculator and non-calculator assessments) |