



YEAR 9 MATHEMATICS

| No | Topic | STP 7A/8A | CATs |
|--|---|-----------|--|
| 17 | Area - Squares & Rectangles Understand and use metric units of area; Calculate perimeters and areas of rectangles and squares; Calculate perimeters and areas of compound shapes. | Ch 14 | |
| 18 | Formulae & Directed Numbers Construct a formula using words and letters; Use a formula to generate answers; Use > and < signs; Add and subtract with negative numbers; Use negative numbers in formulae | Ch 17 | Test (Topic 18) |
| 19 | Summarising & Comparing Data Calculate the three averages (mean, median & mode) for (i) a list of numbers and (ii) a frequency table; Decide which average is the best to use; Calculate and understand range. | Ch 19 | Homework (Topic 19) |
| 20 | Prime Factors, HCF & LCM Write a number as a product of its prime factors; find the HCF and LCM of 2 or more numbers by listing; find the HCF and LCM by prime factorisation; solve problems involving HCF and LCM. | Ch 4 | Test (Topic 20) Homework (Topics 18-20) |
| 21 | Solids & Volume Draw cubes and cuboids on isometric paper; Draw nets of cubes & cuboids; Understand and use plans and elevations; Calculate volume of cubes & cuboids; Change units of volume. | Ch 20 | |
| CHRISTMAS EXAMINATIONS (mainly Topics 17 - 23 with some questions on Topics 1 - 16) | | | |
| 22 | Algebra - Equations Simplify algebraic expressions, Form equations from written information; Solve equations with x on both sides. | Ch 21 | Test (Topic 22) |
| 23 | Polygons Recognise and name polygons; Understand and use interior and exterior angles; Calculate missing angles in polygons; Use LOGO to draw polygons; Understand tessellations. | Ch 6 | Test (Topic 23) |

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| 24 | Number - Laws of Indices & Standard Form Understand and use index notation and the laws of indices, including zero and negative indices; change between standard form and ordinary numbers; Round numbers to significant figures & decimal places. | Ch 1 | Test (Topic 24) Homework (Topics 22-24) |
| 25 | Fractions - Multiplication & Division Multiply whole numbers, fractions and mixed numbers by on another; Divide by a fraction or mixed number; Understand and use the term reciprocal. | Ch 3 | |
| 26 | Probability 2 Calculate the probability of an event not happening; Draw a possibility space; Use a possibility space to calculate probabilities; Discuss the use of probability in the media. | Ch 2 | Homework (Topic 26) |
| 27 | Algebra - Formulae Multiply out brackets, including negative terms; Construct and use simple algebraic formulae; Work out the formulae for a sequence; Understand the idea of nth term; Use Excel to generate sequences. | Ch 10 | Test (Topic 27) Homework (Topics 25-27) |
| 28 | Data Handling - Scatter Graphs Draw a scatter graph; Draw line of best fit and understand what it means; Understand and recognise the different types of correlation. | Ch 8 | |
| SUMMER EXAMINATIONS (mainly Topics 17 - 30 with some questions on Topics 1 - 16) | | | |
| 29 | Fractions & Percentages Find fraction and percentages of quantities; Write one quantity as a fraction of another; Change between percentages, decimals and fractions; Perform calculations involving percentage change. | Ch 4 | |
| 30 | Financial Capability 2 Improve mental maths; Understand the finance involved in organising and paying for a school trip; Use staff:pupil ratios in calculations. | Work sheets | |

Common Assessment Tasks (CATs) are completed by the entire year group, with results recorded centrally. Pupils will also be set other homeworks marked by the teacher and less formal homeworks in their jotters 3 or 4 times per week.

MyMaths is an online resource which can be used to supplement the work done in class.