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| Subject | Year 7 Thresholds Concepts – Spring Term | How to support students learning |
| Mathematics | **Area & Perimeter**   * Finding perimeter using grids - M920 * Finding the perimeter of rectangles and simple shapes - M635 * Finding the perimeter of compound shapes - M690 * Finding areas using grids - M900 * Finding the area of rectangles - M390 * Finding the area of compound shapes - M269 * Finding the area of triangles - M610 * Finding the area of compound shapes containing triangles - M996   **Fractions**   * Finding fractions of shapes - M158 * Constructing fractions - M939 * Finding equivalent fractions - M410 * Simplifying fractions - M671 * Ordering Fractions - M335 * Converting between mixed numbers and improper fractions - M601 * Adding and subtracting fractions - M835 * Adding and subtracting mixed numbers - M931   **Angles**   * Types of angles - M502 * Estimating angles - M541 * Measuring angles - M780 * Drawing angles - M331 * Angles on a line and about a point - M818 * Vertically opposite angles - M163 * Angles in a triangle - M351   **Probability**   * Using probability phrases - M655 * Writing probabilities as fractions - M941 * Writing probabilities as fractions, decimals and percentages - M938 * Probabilities of mutually exclusive events - M755 * Sample space diagrams - M718 * Probability games/fair   **Factors, Multiples & Primes**   * Finding the lowest common multiple - M227 * Finding factors and using divisibility tests - M823 * Finding the highest common factor - M698 * Finding prime numbers - M322 * Prime factor decomposition - M108 * Using the distributive law - M637   **Brackets**   * Expanding single brackets - M237 * Expanding single brackets and simplifying expressions - M792 * Factorising into one bracket - M100   **Data**   * Calculating the range - M328 * Calculating the median - M934 * Finding the mode - M841 * Calculating the mean - M940 * Interpreting frequency tables and two-way tables - M899 * Collecting and recording data using tables - M945 * Drawing and interpreting tally charts - M597 * Drawing and interpreting pictograms - M644 * Drawing bar charts - M460 * Interpreting bar charts - M738 * Finding averages from frequency tables - M127 * Choosing suitable averages and solving problems - M440 | * Encourage your child to practise their times tables up to 15 at home. * Encourage your child to set their work out using the correct columns for place value. * Encourage your child to estimate answers by rounding e.g. shopping costs by rounding to the nearest £. * Encourage your child to look at where they may use negative numbers in real life. * Homework will be set on Sparx – teachers will provide your child with a login and password. Use the Sparx codes provided next to the concepts to support them when required. |