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| Subject | Year 8 Thresholds Concepts – Spring Term | How to support students learning |
| Mathematics | **Surface Area & Volume**   * Finding the surface area from a net - M884 * Finding the surface area of cubes and cuboids - M534 * Finding the surface are of prisms - M661 * Finding the volume of cubes and cuboids - M765 * Finding the volume of prisms - M722 * Converting units of volume - M465   **Linear Graphs**   * Plotting horizontal, vertical and diagonal lines - M797 * Plotting straight line graphs - M932" * Finding equations of straight line graphs - M544   **Angles**   * Angles in quadrilaterals - M679 * Combining angle facts - M319 * Angles on parallel lines - M606 * Using quadrilateral properties to find angles - M393 * Angles in polygons - M653   **Algebraic Fractions**   * Calculating with fractions - M645 * Calculating with mixed numbers - M619 * Simplifying algebraic fractions by factorising - M754 * Adding and subtracting algebraic fractions - M336 * Using recurring decimal notation - M701 * Converting fractions to recurring decimals - M922   **Venn Diagrams**   * Venn diagrams - M829 * Probability from venn diagrams - M419 * Finding the HCF and LCM from prime factor decomposition - M365   **Transformations**   * Translation - M139 * Reflection - M290   **Inequalities**   * Reading and drawing linear inequalities on number lines - M384 * Solving single inequalities - M118   **Brackets**   * Expanding Double Brackets - M960 | * 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. |