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| Subject | Year 7 Thresholds Concepts – Autumn Term | How to support students learning |
| Mathematics | **Number sense**   * Integer place value - M704 * Decimal place value - M552 * Using number lines - M763 * Rounding integers - M111 * Rounding decimals - M431 * Adding integers - M928 * Adding decimals - M429 * Subtracting integers - M347 * Subtracting decimals - M152 * Multiplying and dividing by 10, 100 and 1000 - M113 * Multiplying and place value - M911 * Using a written method to multiply integers - M187 * Using a written method to multiply decimals - M803 * Dividing numbers into equal groups - M462 * Using a written method to divide integers - M354 * Dividing with a remainder - M873 * Using a written method to divide by integers to get a decimal answer - M262 * Using a written method to divide by decimals - M491 * Ordering negative numbers - M527 * Adding and subtracting negative numbers - M106 * Multiplying and dividing negative numbers - M288 * Calculating with roots and powers - M135 * Using the correct order of operations - M521 * Using the commutative laws - M952 * Using the associative laws - M409   **Equations**   * Solving equations with one step - M707 * Solving equations of the form ax+b=c - M634 * Solving equations of the form x/a +b=c - M647   **Time & Measures**   * Converting units of time - M515 * Using clocks - M892 * Calculating with time - M627 * Estimating and measuring length, mass and capacity - M828 * Converting units of length, mass and capacity - M774 * Using appropriate units - M487   **Expressions & Substitution**   * Algebraic notation - M813 * Algebraic terminology - M830 * Simplifying expressions containing a single variable - M795 * Simplifying expressions containing multiple variables - M531 * Simplifying expressions containing non-linear terms - M949 * Substituting into expressions with one operation - M417 * Substituting into expressions with multiple operations - M327 * Substituting into algebraic formulae - M208 * Substituting into real-life formulae - M979   **Lines & Shapes**   * Line properties - M814 * Shape properties - M276 * Symmetry - M523   **Co-ordinates**   * Reading and plotting co-ordinates - M618 * Solving shape problems involving co-ordinates - M230 | * 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. |