

| Subject     | Year 7 Thresholds Concepts – Spring Term                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | How to support students learning                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
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| Mathematics | <p><b>Area &amp; Perimeter</b></p> <ul style="list-style-type: none"> <li>Finding perimeter using grids - M920</li> <li>Finding the perimeter of rectangles and simple shapes - M635</li> <li>Finding the perimeter of compound shapes - M690</li> <li>Finding areas using grids - M900</li> <li>Finding the area of rectangles - M390</li> <li>Finding the area of compound shapes - M269</li> <li>Finding the area of triangles - M610</li> <li>Finding the area of compound shapes containing triangles - M996</li> </ul> <p><b>Fractions</b></p> <ul style="list-style-type: none"> <li>Finding fractions of shapes - M158</li> <li>Constructing fractions - M939</li> <li>Finding equivalent fractions - M410</li> <li>Simplifying fractions - M671</li> <li>Ordering Fractions - M335</li> <li>Converting between mixed numbers and improper fractions - M601</li> <li>Adding and subtracting fractions - M835</li> <li>Adding and subtracting mixed numbers - M931</li> </ul> <p><b>Angles</b></p> <ul style="list-style-type: none"> <li>Types of angles - M502</li> <li>Estimating angles - M541</li> <li>Measuring angles - M780</li> <li>Drawing angles - M331</li> <li>Angles on a line and about a point - M818</li> <li>Vertically opposite angles - M163</li> <li>Angles in a triangle - M351</li> </ul> <p><b>Probability</b></p> <ul style="list-style-type: none"> <li>Using probability phrases - M655</li> </ul> | <ul style="list-style-type: none"> <li>Encourage your child to practise their times tables up to 15 at home.</li> <li>Encourage your child to set their work out using the correct columns for place value.</li> <li>Encourage your child to estimate answers by rounding e.g. shopping costs by rounding to the nearest £.</li> <li>Encourage your child to look at where they may use negative numbers in real life.</li> <li>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.</li> </ul> |

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|  | <ul style="list-style-type: none"> <li>• Writing probabilities as fractions - M941</li> <li>• Writing probabilities as fractions, decimals and percentages - M938</li> <li>• Probabilities of mutually exclusive events - M755</li> <li>• Sample space diagrams - M718</li> <li>• Probability games/fair</li> </ul> <p><b>Factors, Multiples &amp; Primes</b></p> <ul style="list-style-type: none"> <li>• Finding the lowest common multiple - M227</li> <li>• Finding factors and using divisibility tests - M823</li> <li>• Finding the highest common factor - M698</li> <li>• Finding prime numbers - M322</li> <li>• Prime factor decomposition - M108</li> <li>• Using the distributive law - M637</li> </ul> <p><b>Brackets</b></p> <ul style="list-style-type: none"> <li>• Expanding single brackets - M237</li> <li>• Expanding single brackets and simplifying expressions - M792</li> <li>• Factorising into one bracket - M100</li> </ul> <p><b>Data</b></p> <ul style="list-style-type: none"> <li>• Calculating the range - M328</li> <li>• Calculating the median - M934</li> <li>• Finding the mode - M841</li> <li>• Calculating the mean - M940</li> <li>• Interpreting frequency tables and two-way tables - M899</li> <li>• Collecting and recording data using tables - M945</li> <li>• Drawing and interpreting tally charts - M597</li> <li>• Drawing and interpreting pictograms - M644</li> <li>• Drawing bar charts - M460</li> <li>• Interpreting bar charts - M738</li> <li>• Finding averages from frequency tables - M127</li> <li>• Choosing suitable averages and solving problems - M440</li> </ul> |  |
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