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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.
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