

Subject	Year 7 Thresholds Concepts – Spring Term	How to support students learning
Mathematics	<p>Area & Perimeter</p> <ul style="list-style-type: none"> • 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 <p>Fractions</p> <ul style="list-style-type: none"> • 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 <p>Angles</p> <ul style="list-style-type: none"> • 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 <p>Probability</p> <ul style="list-style-type: none"> • Using probability phrases - M655 	<ul style="list-style-type: none"> • 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.

- 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

