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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.
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