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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.
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