MONTSAYE MATHEMATICS HOME LEARNING SUPPORT Year 9 Intermediate

You currently need to do your learning from home. There is a range of resources ready for you to use on the topics you have been studying in your **Maths** lessons. The tables below contain the relevant topics on the Kerboodle website with the relevant text books and support videos.

- Work out which term we are in by checking the date.
- Work out which set you are in which will be on your timetable.
- Log onto Kerboodle using your first name initial and your surname. Your password is what you set it as (initially it is the same as your login). E.g.: Isaac Newton would be INewton. The institution code is **fry0**
- Find out which lesson you are on and watch the video that goes with that lesson (click the video icon at the top of the page). Complete the questions on the right hand page for the lesson.
- *If you need to email your teacher type their initial and surname +* ***@montsaye.northants.sch.uk*** **msmith/ msipple / jellis / gurwin / shoche / rpierce / gbaria / jmayers / tgrowcock / lfernandez**

Lessons usually include a video explaining the main ideas and then you need to follow instructions to complete some written work. Remember, if you need extra support you can go to www.mymaths.co.uk and type the code on the text book page (the links are mostly in the table), re-watch the video, email your teacher, check another source such as BBC bitesize, if you forget your password for www.mymaths.co.uk then email your teacher asking for it.

	Term 1: *Sep-Oct*	Term 2: *Nov-Dec*	Term 3: *Jan- Feb*	Term 4: *Feb-Mar*	Term 5: *Apr-May*	Term 6: *Jun-Jul*
Year 9 Intermediate **9xMa2** **9xMa3** **9yMa2** 	1a. Powers of 10 1b. Rounding 1c. Factors, multiples and primes 1d. Estimating and approximating 2a. Measures 1 2b. Measures 2 2c. Area of 2D shape 2d. Circumference of a circle 2e. Area of a circle 2f. Compound measures 3a. Factors in algebra 3b. Algebraic fractions 3c. Formulae in context 3d. Rearranging formulae 3e. Deriving and graphing formulae	4a. Adding and subtracting fractions 4b. Multiplying fractions 4c. Dividing fractions 4d. Decimals and fractions 4e. Percentage change 4f. Percentage problems 4g. Financial maths 1 : Repeated percentage change 5a. Angle properties of a triangle 5b. Angle properties of a quadrilateral 5c. Angle properties of a polygon1 5d. Angle properties of a polygon2 5e. Congruent shapes 6a. Table of values 6b. Drawing straight line graphs 6c. Gradient of a straight-line graph 6d. y-intercept of a straight line graph 6e. The equation y=mx + c 6f. Equations given implicitly 6g. Real-life graphs 6h. Distance-time graphs 6i. Time series 7a. Adding and subtracting decimals 7b. Multiplying decimals 7c. Dividing decimals 7d. Using a calculator 7e. Interpreting the calculator display	8a. Planning a project 8b. Data collection 8c. Frequency tables 8d. Statistical diagrams 1 8e. Statistical diagrams 2 8f. Calculating averages 8g. Interpreting graphs 8h. Correlation 8i. Averages from grouped data 8j. Comparing distributions 8k. Communicating the results of an enquiry 9a. Transformations 9b. Enlargements 9c.. Combinations of transformations 9d. Maps and scale drawings 9e. Bearings 10a. Solving equations 10b. Equations with brackets 10c Unknowns on both sides 10d. Constructing equations 10e. Trial and improvement	11a. Square roots and cube roots 11b. Indices 11c. Indices and surds 11d. Standard form for large numbers 11e. Standard form for small numbers 12a. Constructing a triangle 1 12b. Constructing a triangles 2 12c. Loci and constructions 12d. Pythagoras' theorem 1 12e. Pythagoras' theorem 2	13a. Sequences and terms 13b. Position-to-term rules 13c. The general term 13d. Real-life sequences 13e. Recursive sequences 14a. 3D shapes 14b. Plans and elevations 14c. Symmetry of a 3D shape 14d. Surface area of a prism 14e. Volume of a prism	15a. Direct proportion 15b. Comparing proportions 15c. Ratio 15d. Uses of ratio 15e. Ratio and proportion problems 15f. Proportional reasoning 15g. Financial maths 2 : living on a budget 16a. Prediction and uncertainty 16b. Mutually exclusive events 16c. Calculating probabilities 16d. The outcome of two trials 16e. Experimental probability 16f. Comparing theoretical and experimental probabilities 16g. Venn diagrams