




MONTSAYE MATHEMATICS HOME LEARNING SUPPORT YEAR 9 Higher



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 Higher 9xMa1 9yMa1 	1a. Significant figures 1b. Upper and lower bounds 1 1c. Upper and lower bounds 2 1d. Using numbers in index form 2a. Measures 2b. Dimensions 2c. Length and area 2d. Compound measures 3a. Index laws 1 3b. Index laws 2 3c. Multiplying linear expressions 3d. Factorising expressions 3e. Identities 3f. Formulae 3g. Changing the subject of a formula 1 3h. Changing the subject of a formula 2	4a. Calculating with fractions 4b. Recurring decimals and reciprocals 4c. Percentage increase and decrease 4d. Reverse percentages 4e. Financial maths 1 : Repeated percentage change 5a. Angle problems 5b. Angles in a polygon 5c. Circle properties 5d. Arcs and sectors 5e. Congruence 6a. The gradient of a straight line 6b. Graphs of linear functions 6c. Parallel and perpendicular lines 6d. Quadratic graphs 1 6e. Quadratic graphs 2 6f. Cubic graphs 6g. Distance-time graphs 6h. Real-life graphs 6i. Time series 6j. Exponential and reciprocal graphs 7a. Order of operations 7b. Calculating with decimals 7c. Using a calculator 7d. Interpreting the calculator display	8a. Planning a statistical survey 8b. Data collection 8c. Frequency diagrams 8d. Moving averages 8e. The mean 8f. Correlation 8g. Cumulative frequency 8h. Interpreting data 8i. Comparing distributions 8j. Box plots 9a. Transformations 9b. Enlargements 1 9c. Enlargements 2 9d. Maps and scale drawings 9e. Similar shapes 10a. Consolidating linear equations 10b. Simultaneous equations 1 10c. Simultaneous equations 2 10d. Constructing simultaneous equations 10e. Solving simultaneous equations with graphs 10f. Solving inequalities 10g. Solving equations using trial-and-improvement	11a. Standard form for large numbers 11b. Standard form for small numbers 11c. Powers and operations 11d. Indices and surds 12a. Pythagoras' theorem 12b. Applications of Pythagoras' theorem 12c. Constructing a triangle 12d. Loci	13a. Position-to-term rules 13b. Patterns and sequences 13c. Quadratic sequences 13d. Behaviour of a sequence 14a. 3D shapes 14b. 3D geometry 14c. Trigonometry 1 14d. Trigonometry 2 14e. Bearings	15a. Fractions and proportion 15b. Ratio and proportion 15c. Proportionality 15d. Proportion and scale 15e. Proportional reasoning 15f. Financial maths 2 : Living on a budget 16a. Prediction and uncertainty 16b. Independent events 16c. Tree diagrams 16d. Probability of combined events 16e. Experimental probability 16f. Simulations 16g. Venn diagrams