MONTSAYE MATHEMATICS HOME LEARNING SUPPORT YEAR 7 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 (after year 7 have been put into sets)
- 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 7 Higher 7xMa1 7yMa1	1a. Place value and decimals 1b. Multiply and divide by 10, 100,1000 1c. Negative numbers 1d. Mental addition & subtraction 1e. Written addition & subtraction 1f. Calculator methods 1 2a. Units of measurement 2b. Converting between units 2c. Perimeter & area rectangle 2d. Perimeter & area triangle 2e. Area of a parallelogram & trapezium 2f. Surface area of cuboid 2g. Volume of a cuboid 3a. Using letter symbols 3b. Collecting like terms 3c. Expanding brackets 3d. Using a formula 3e. Writing a formula 3f. Further substitution 3h. Simplification and division	4a. Fraction notation 4b. Adding & subtracting fractions 4c. Decimals & Fractions 4d. Fraction of a quantity 4e. Percentages 4f. Fractions, decimals and percentages 5a. Calculating angles 5b. Angles and parallel lines 5c. Angles in triangles & quadrilaterals 5d. Properties of triangles 5e. Properties of quadrilaterals 5f. Properties of polygons 6a. Coordinates 6b. Plotting horizontal and vertical lines 6c. Plotting straight line graphs 6d. The equation of a straight line 6e. Real-life graphs 6f. Line graphs for time series 7a. Rounding 7b. Order of operations 7c. Mental methods of multiplication & division 7d. Written methods of multiplication 7e. Written methods of division 7f. Calculator methods	8a. Types of data and averages 8b. The mean 8c. Frequency tables 8d. Bar charts 8e. Pie charts 8f. Collecting data 8g. Designing a questionnaire 8h. Grouping data 8i. Comparing data 9a. Reflection 9b. Rotation 9c. Symmetry 9d. Translation 9e. Enlargement 9f. Tessellations 10a. Solving equations 10b. Unknown on both sides 10c Further Equations 10d. Constructing equations	11a. Squares and square roots 11b. Factors and multiples 11c. Prime factors 11d. Divisibility tests 11e. LCM & HCF using prime factors 12a Constructing bisectors 12b. Constructing triangles 1 12c. Constructing triangles 2 12d. Simple loci 12e. Scale drawing 12f. 2D representation of 3D shapes 12g. Plans and elevations	13a. Sequences 13b. Sequence rules 13c. Sequences and algebra 13d. Finding a rule from a sequence 13e. Sequences in context 14a. Mental methods of multiplying and dividing decimals 14b. Multiplying decimals 14c. Dividing decimals 14d. Calculator methods 3	15a. Introducing proportion 15b. Direct proportion 15c. Ratio 15d. Dividing in a given ratio 15e. Ratio and proportion 15f. Percentage problems 16a. The probability scale 16b. Equally likely outcomes 16c. Mutually exclusive outcomes 16d. Experimental probability 16e. Comparing probabilities 16f. Sorting with Venn diagrams