




MONTSAYE MATHEMATICS HOME LEARNING SUPPORT YEAR 8 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 8 Higher 8xMa1 8yMa1  | 1a. Factors, multiples and primes 1b. Prime factor decomposition 1c. LCM and HCF 1d. Square roots and cube roots 1e. Indices 1f. Rounding and estimation 1g. Trial and improvement 1 2a. Metric measure 2b. Imperial measure 2c. Area of a rectangle and triangle 2d. Area of a parallelogram and trapezium 2e. Circumference of a circle 2f. Area of a circle 3a. Indices in algebra 3b. Index laws 3c. Collecting like terms including powers 3d. Expanding brackets 3e. Factorising expressions 3f. Formulae 3g. Rearranging formulae 3h. Writing expressions 3i Algebraic fractions | 4a. Fractions and decimals 4b. Adding & subtracting fractions 4c. Multiplying and dividing fractions 4d. Percentage change 4e. Percentage problems 4f. Fractions, decimals and percentages 5a. Angles and parallel lines 5b. Properties of a triangle and a quadrilateral 5c. Properties of a polygon 5d. Congruent shapes 6a. Graphs of linear functions 6b. Equation of a straight line 6c. Curved graphs 6d. Midpoints of coordinate pairs 6e. Graphs of implicit functions 6f. Real life graphs 6g. Time series 7a. Arithmetic with negative integers 7b. Powers of 10 7c. Mental addition and subtraction 7d. Mental multiplication and division | 8a. Planning a statistical investigation 8b. Collecting data 8c. Frequency tables 8d. Constructing diagrams 8e. Averages 1 8f. Averages 2 8g. Interpreting statistical diagrams 8h. Scatter diagrams and correlation 8i. Comparing distributions 9a. Transformations 9b. Combinations of transformations 9c. Symmetry 9d. Enlargements 1 9e. Enlargements 2 10a. Linear equations 1 10b. Linear equations 2 10c. Equations with fractions 10d. Trial and improvement 2 10e. Real-life equations | 11a. Multiplication 11b. Division 11c. Calculator skills 11d. Calculators in context 11e. Order of operations 11f. Written addition and subtraction 11g. Multiplication and division problems 12a. Constructing triangles 1 12b. Constructing triangles 2 12c. Bisectors and perpendiculars 12d. Scale drawing 12e. Loci 12f. Bearings | 13a. General term of a sequence 13b. Sequences in context 13c. Geometric sequences 13d. Recursive sequences 14a. 3D shapes 14b. Plans and elevations 14c. Surface area of a prism 14d. Volume of a prism | 15a. Ratio 15b. Division in a given ratio 15c. Direct proportion 15d. Ratio and proportion 15e. Comparing proportions 15f. Algebra and proportion 16a. Two or more events 16b. Tree diagrams 16c. Mutually exclusive outcomes 16d. Experimental probability 16e. Comparing experimental and theoretical probability 16f. Simulating experimental data 16g. Venn diagrams and probability |