

Maths Homework Booklet

Term 2

Each week every student will be set piece of homework. This will be set on the first lesson of the week and due in on the last lesson of the week.

Should students want to push themselves further, they can choose a task from the list below. Typing the task title into ActiveLearn, Mathswatch or Hegarty Maths will bring up a set of questions and videos to support students in their learning. For any student wanting to brush up on their times tables, we have Times Table Rock Stars- your teacher will set a task on this every week as an extra piece of homework!

| | Year 7 |
|--------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| w/c 08/01/18 | <p>Derive Formulae Derive formulae from written questions. This can include negative, fractional or include decimals.</p> |
| | <p>Order of Operations Use BIDMAS to answer questions on order of operations. These may be non-integer solutions.</p> |
| | <p>Numeracy Fluency Tasks Log onto Times Tables Rock Stars and practise the tasks. Your teacher will update this with new tasks weekly.</p> |
| w/c 15/01/18 | <p>Compare Fractions Simplify and order fractions. Change between improper and mixed number and order from highest to smallest and vice-versa.</p> |
| | <p>Use Extended Written Methods (HTU x TU) Use the videos on Hegarty Maths to support yourself with written methods. Which method is easiest to use?</p> |
| | <p>Numeracy Fluency Tasks Log onto Times Tables Rock Stars and practise the tasks. Your teacher will update this with new tasks weekly.</p> |
| w/c 22/01/18 | <p>Use Inequalities with Fractions Order and convert fractions, then use inequalities to show which is greater. Can you find any that are equal?</p> |
| | <p>Tests of Divisibility Complete divisibility tests on Hegarty Maths. Can you think how this links in to finding HCF and LCM?</p> |
| | <p>Numeracy Fluency Tasks Log onto Times Tables Rock Stars and practise the tasks. Your teacher will update this with new tasks weekly.</p> |

| | |
|--------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| w/c 29/01/18 | <p>Add and Subtract Fractions</p> <p>Add and subtract fractions that have different denominators. Remember to simplify your answers after each question.</p> |
| | <p>HCF/LCM</p> <p>Find HCF/LCM of pairs of numbers. Use three numbers as an extension. How does this link in with tests of divisibility?</p> |
| | <p>Numeracy Fluency Tasks</p> <p>Log onto Times Tables Rock Stars and practise the tasks. Your teacher will update this with new tasks weekly.</p> |
| w/c 05/02/18 | <p>Multiply Fractions</p> <p>Multiply fractions. These may be improper or mixed number. Make sure you simplify afterwards!</p> |
| | <p>Order Metric Units</p> <p>Which metric units can you use? Find appropriate measures for each descriptor.</p> |
| | <p>Numeracy Fluency Tasks</p> <p>Log onto Times Tables Rock Stars and practise the tasks. Your teacher will update this with new tasks weekly.</p> |
| w/c 12/02/18 | <p>Divide Fractions</p> <p>Divide fractions using the given method. Remember to simplify afterwards. Can you tell your teacher why we use this method?</p> |
| | <p>Rounding</p> <p>Round numbers to different degrees of accuracy. This can include decimal places and significant figures.</p> |
| | <p>Numeracy Fluency Tasks</p> <p>Log onto Times Tables Rock Stars and practise the tasks. Your teacher will update this with new tasks weekly.</p> |
| w/c 26/02/18 | <p>Vertically Opposite Angles</p> <p>Find vertically opposite angles. Try mixing this in with algebra and see if you can set up equations.</p> |
| | <p>Angles Around a Point</p> <p>Use what we know about angles in triangles to find angles around a point. Can you use algebra here as well?</p> |
| | <p>Numeracy Fluency Tasks</p> <p>Log onto Times Tables Rock Stars and practise the tasks. Your teacher will update this with new tasks weekly.</p> |
| w/c 05/03/18 | <p>Alternate/Corresponding Angles</p> <p>Find angles in parallel line using the above definitions. Remember to use these non Z angles as your reasons in exam questions!</p> |

| | |
|--------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | <p style="text-align: center;">Acute/Obtuse Angles</p> <p>Can you give definitions for these terms? Label different angles with are acute and obtuse.</p> |
| | <p style="text-align: center;">Numeracy Fluency Tasks</p> <p>Log onto Times Tables Rock Stars and practise the tasks. Your teacher will update this with new tasks weekly.</p> |
| w/c 12/03/18 | <p style="text-align: center;">Equilateral/Isosceles Triangles</p> <p>What do these triangles look like? Can you draw them?</p> |
| | <p style="text-align: center;">Estimating Angle Size</p> <p>Can you estimate an angle? What words can you use for them? Can you prove your answer?</p> |
| | <p style="text-align: center;">Numeracy Fluency Tasks</p> <p>Log onto Times Tables Rock Stars and practise the tasks. Your teacher will update this with new tasks weekly.</p> |
| w/c 19/03/18 | <p style="text-align: center;">Quadrilaterals</p> <p>Define different quadrilaterals. What properties do they have? Can you like in lines of symmetry?</p> |
| | <p style="text-align: center;">Angles on a Straight Line</p> <p>Work out angles on a straight line. Why do these add up to 180 degrees? Can you use algebra in your answers?</p> |
| | <p style="text-align: center;">Numeracy Fluency Tasks</p> <p>Log onto Times Tables Rock Stars and practise the tasks. Your teacher will update this with new tasks weekly.</p> |
| w/c 26/03/18 | <p style="text-align: center;">Multiply/Divide Decimals</p> <p>Use standard methods to multiply and divide decimals. Can you put these in order once you've worked them out?</p> |
| | <p style="text-align: center;">Area of Shapes</p> <p>What different formulae do we know or need to work out area of shapes? Can you relate this to volume?</p> |
| | <p style="text-align: center;">Numeracy Fluency Tasks</p> <p>Log onto Times Tables Rock Stars and practise the tasks. Your teacher will update this with new tasks weekly.</p> |

| | |
|--------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | Year 8 |
| w/c 08/01/18 | <p style="text-align: center;">Proportion on Real Life Graphs</p> <p>What does proportion on real life graphs look like? Can this be a curved line as well as a linear graph?</p> |
| | <p style="text-align: center;">Collect Like Terms</p> <p>Collect simple like terms. Use quadratic expressions or equations to increase the challenge.</p> |

| | |
|--------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | <p align="center">Numeracy Fluency Tasks</p> <p align="center">Log onto Times Tables Rock Stars and practise the tasks. Your teacher will update this with new tasks weekly.</p> |
| w/c 15/01/18 | <p align="center">Plot Linear Graphs</p> <p align="center">Use a table of values to plot linear graphs. Can you give definitions of what the gradient and y intercept are?</p> |
| | <p align="center">Find Outputs of Function Machines</p> <p align="center">Use function machines and find outputs. Find the inverse and see if you can find the input as well.</p> |
| | <p align="center">Numeracy Fluency Tasks</p> <p align="center">Log onto Times Tables Rock Stars and practise the tasks. Your teacher will update this with new tasks weekly.</p> |
| w/c 22/01/18 | <p align="center">Reflection (including on Graphs)</p> <p align="center">Plot a linear graph and use this as a reflection line. Can you make this diagonal to stretch yourself?</p> |
| | <p align="center">Multiply Terms</p> <p align="center">Multiply algebraic terms together. Can you use indices? What patterns can you spot? What happens if one is negative?</p> |
| | <p align="center">Numeracy Fluency Tasks</p> <p align="center">Log onto Times Tables Rock Stars and practise the tasks. Your teacher will update this with new tasks weekly.</p> |
| w/c 29/01/18 | <p align="center">Translations and Rotations</p> <p align="center">Translate and rotate shapes. How is this different to other transformations you have looked at?</p> |
| | <p align="center">Adding Decimals</p> <p align="center">Use the column method to add decimals. Think about how this might look if we were looking at money.</p> |
| | <p align="center">Numeracy Fluency Tasks</p> <p align="center">Log onto Times Tables Rock Stars and practise the tasks. Your teacher will update this with new tasks weekly.</p> |
| w/c 05/02/18 | <p align="center">Enlargement (including fractional)</p> <p align="center">Enlarge shapes using different scale factors. What happens when we have a fractional scale factor?</p> |
| | <p align="center">Use Inequalities with Decimals</p> <p align="center">Order decimals and use inequalities in your answers.</p> |
| | <p align="center">Numeracy Fluency Tasks</p> <p align="center">Log onto Times Tables Rock Stars and practise the tasks. Your teacher will update this with new tasks weekly.</p> |

| | |
|--------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| w/c 12/02/18 | <p>Describing Transformations</p> <p>Without using tracing paper, describe different transformations. Can you use more than one at once?</p> |
| | <p>Rounding Decimals</p> <p>Round decimals to different degrees of accuracy. Include decimal places and significant figures.</p> |
| | <p>Numeracy Fluency Tasks</p> <p>Log onto Times Tables Rock Stars and practise the tasks. Your teacher will update this with new tasks weekly.</p> |
| w/c 26/02/18 | <p>Converting Fractions</p> <p>Convert decimals to fractions and vice versa. Can you think about how a mixed number/improper fraction may convert?</p> |
| | <p>Measuring Angles</p> <p>Using a protractor, measure angles. Can you take an estimate before you start measuring?</p> |
| | <p>Numeracy Fluency Tasks</p> <p>Log onto Times Tables Rock Stars and practise the tasks. Your teacher will update this with new tasks weekly.</p> |
| w/c 05/03/18 | <p>Recurring Decimals</p> <p>Using bus stop division, can you convert recurring decimals to fractions and vice versa?</p> |
| | <p>Angles in Triangles</p> <p>What do the angles in a triangle add to? Can you prove this? Use algebra when investigating this.</p> |
| | <p>Numeracy Fluency Tasks</p> <p>Log onto Times Tables Rock Stars and practise the tasks. Your teacher will update this with new tasks weekly.</p> |
| w/c 12/03/18 | <p>Inverse Operations (including with Fractions)</p> <p>Use inverse operations. This should include negative numbers, fractions and decimals to test yourself!</p> |
| | <p>Vertically Opposite Angles</p> <p>Define what a vertically opposite angle is. Use algebra when investigating this.</p> |
| | <p>Numeracy Fluency Tasks</p> <p>Log onto Times Tables Rock Stars and practise the tasks. Your teacher will update this with new tasks weekly.</p> |
| w/c 19/03/18 | <p>Percentage Change</p> <p>Find the percentage change of two numbers. How does this link in with sales in high street shops?</p> |
| | <p>Pythagoras</p> <p>Find the shorter and longer side using Pythagoras. Can you use this in 3D?</p> |

| | |
|--------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | <p align="center">Numeracy Fluency Tasks</p> <p align="center">Log onto Times Tables Rock Stars and practise the tasks. Your teacher will update this with new tasks weekly.</p> |
| w/c 26/03/18 | <p align="center">Unitary Method for Best Buys</p> <p align="center">What is the unitary method? How can this be used in real life? Is there an alternative way to work out best buys?</p> |
| | <p align="center">Find Squares and Roots</p> <p align="center">Using a calculator, find roots and square of values. What might this look like on a graph? Can you find estimates?</p> |
| | <p align="center">Numeracy Fluency Tasks</p> <p align="center">Log onto Times Tables Rock Stars and practise the tasks. Your teacher will update this with new tasks weekly.</p> |

| | |
|--------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | <p>Year 9</p> |
| w/c 08/01/18 | <p align="center">Find the nth term (including basic Quadratic Sequences)</p> <p align="center">Find the linear nth term of sequences. Develop this and find the nth term of quadratic sequences.</p> |
| | <p align="center">Collecting Like Terms</p> <p align="center">Collect terms that are the same together. What happens if some terms are squared or cubed?</p> |
| | <p align="center">Numeracy Fluency Tasks</p> <p align="center">Log onto Times Tables Rock Stars and practise the tasks. Your teacher will update this with new tasks weekly.</p> |
| w/c 15/01/18 | <p align="center">Multiply Three Sets of Brackets</p> <p align="center">Using the FOIL method, develop multiplying out a pair of double brackets into multiplying out three pairs of brackets.</p> |
| | <p align="center">Generate a Linear Sequence</p> <p align="center">Using the nth term, generate a linear sequence. Can you find the 50th and 100th terms of a sequence?</p> |
| | <p align="center">Numeracy Fluency Tasks</p> <p align="center">Log onto Times Tables Rock Stars and practise the tasks. Your teacher will update this with new tasks weekly.</p> |
| w/c 22/01/18 | <p align="center">Factorise Quadratics</p> <p align="center">Use a pair of double brackets to factorise quadratic expressions. Can you notice any patterns?</p> |
| | <p align="center">Find the nth Term</p> <p align="center">Find the nth term of linear sequences. Work them out with increasing and decreasing values.</p> |

| | |
|--------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | <p align="center">Numeracy Fluency Tasks</p> <p align="center">Log onto Times Tables Rock Stars and practise the tasks. Your teacher will update this with new tasks weekly.</p> |
| w/c 29/01/18 | <p align="center">Completing the Square</p> <p align="center">Use the given method to complete the square. Can you use this to solve these kind of equations?</p> |
| | <p align="center">Find Outputs of Function Machines</p> <p align="center">Substitute positive, negative, integer and fractional values into function machines and find the outputs.</p> |
| | <p align="center">Numeracy Fluency Tasks</p> <p align="center">Log onto Times Tables Rock Stars and practise the tasks. Your teacher will update this with new tasks weekly.</p> |
| w/c 05/02/18 | <p align="center">Solving Inequalities</p> <p align="center">Solve linear inequalities. Can you describe what happens when you divide or multiply by a negative number?</p> |
| | <p align="center">Data Collection</p> <p align="center">Describe a variety of data collection techniques. Give definitions of qualitative and quantitative data.</p> |
| | <p align="center">Numeracy Fluency Tasks</p> <p align="center">Log onto Times Tables Rock Stars and practise the tasks. Your teacher will update this with new tasks weekly.</p> |
| w/c 12/02/18 | <p align="center">Simplify Algebraic Fractions</p> <p align="center">Simplify, add, subtract, divide and multiply algebraic fractions. Remember to factorise to see if you can simplify at the end.</p> |
| | <p align="center">Sampling</p> <p align="center">Use different sampling techniques on a range of data.</p> |
| | <p align="center">Numeracy Fluency Tasks</p> <p align="center">Log onto Times Tables Rock Stars and practise the tasks. Your teacher will update this with new tasks weekly.</p> |
| w/c 26/02/18 | <p align="center">Calculate with Algebraic Fractions</p> <p align="center">Once you've added and subtracted algebraic fractions, can you think about how you'd solve them?</p> |
| | <p align="center">Two Way Tables</p> <p align="center">Use two way tables to find probabilities. Can you fill them in from a description and then use them afterwards?</p> |
| | <p align="center">Numeracy Fluency Tasks</p> <p align="center">Log onto Times Tables Rock Stars and practise the tasks. Your teacher will update this with new tasks weekly.</p> |

| | |
|--------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| w/c 05/03/18 | <p>Changing the Subject Rearrange formulae to change the subject. Be careful when you have squares and cubes involved.</p> |
| | <p>Drawing Pie Charts Construct a table to help your draw a pie chart. Find the angles first and then draw your chart.</p> |
| | <p>Numeracy Fluency Tasks Log onto Times Tables Rock Stars and practise the tasks. Your teacher will update this with new tasks weekly.</p> |
| w/c 12/03/18 | <p>Frequency Diagrams Use frequency tables to draw a range of frequency diagrams. This can be cumulative frequency graphs too.</p> |
| | <p>Interpreting Bar Charts Use a bar chart to find different average. Analyse data from dual and composite bar charts.</p> |
| | <p>Numeracy Fluency Tasks Log onto Times Tables Rock Stars and practise the tasks. Your teacher will update this with new tasks weekly.</p> |
| w/c 19/03/18 | <p>Find Averages from Stem and Leaf Diagrams Create an ordered stem and lead diagram. Use this to find the median, mode, mean and range.</p> |
| | <p>Convert Terminating Decimals Convert decimals using the method shown on Hegarty Maths. What happens if these recur?</p> |
| | <p>Numeracy Fluency Tasks Log onto Times Tables Rock Stars and practise the tasks. Your teacher will update this with new tasks weekly.</p> |
| w/c 26/03/18 | <p>Draw Box Plots Use a list of data to create box plots. Can you analyse thse carefully and compare two different diagrams?</p> |
| | <p>Convert a Fraction to a Decimal Using bus stop division, convert a fraction to a decimal. What do recurring decimals look like as fractions?</p> |
| | <p>Numeracy Fluency Tasks Log onto Times Tables Rock Stars and practise the tasks. Your teacher will update this with new tasks weekly.</p> |

| | |
|----------|----------------------------------------------------------------------------------------------------------------------|
| | Year 10 |
| w/c 08/0 | <p>Gradients of Linear Graphs Find the gradients of linear graphs. Can you do this without a diagram?</p> |

| | |
|--------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | <p>Solving Equations Solve linear equations. Make sure you show full working out to get full marks!</p> |
| | <p>Entry Level Revision Number, Operations, Ratio, Money, Time, Measure, Geometry, Statistics</p> |
| w/c 15/01/18 | <p>Graphing Rates of Change Graph rates of change. How may this differ when you're using different units?</p> |
| | <p>Solving Inequalities Solve inequalities. What happens when you multiply or divide by a negative number?</p> |
| | <p>Entry Level Revision Number, Operations, Ratio, Money, Time, Measure, Geometry, Statistics</p> |
| w/c 22/01/18 | <p>Line Segments Find the difference between two points. Can you find the midpoint of a line segment? Use ratios with this as well.</p> |
| | <p>Generating Sequences Generate a linear sequence from being given the nth term. Can you do the same with a quadratic sequence?</p> |
| | <p>Entry Level Revision Number, Operations, Ratio, Money, Time, Measure, Geometry, Statistics</p> |
| w/c 29/01/18 | <p>Quadratic Graphs Use a table of values to plot a quadratic graph. Can you label the turning points and the roots?</p> |
| | <p>Finding the nth Term Find the nth term of a linear sequence. Can you use this to find the 50th or 100th term of a sequence?</p> |
| | <p>Entry Level Revision Number, Operations, Ratio, Money, Time, Measure, Geometry, Statistics</p> |
| w/c 05/02/18 | <p>Cubic/Reciprocal Graphs Sketch cubic and reciprocal graphs. Use a table of values to help you.</p> |
| | <p>Properties of Shapes Can you name different properties of shapes? Make sure you are careful to use the correct terminology.</p> |
| | <p>Entry Level Revision Number, Operations, Ratio, Money, Time, Measure, Geometry, Statistics</p> |
| w/c 12/02/ | <p>Units and Accuracy (Bounds) Find the upper and lower bounds of values. Can you use this to find area/perimeter of shapes?</p> |

| | |
|--------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | <p style="text-align: center;">Angles in Parallel Lines</p> <p style="text-align: center;">Use alternate, corresponding and supplementary angle rules to find missing angles in parallel lines.</p> |
| | <p style="text-align: center;">Entry Level Revision</p> <p style="text-align: center;">Number, Operations, Ratio, Money, Time, Measure, Geometry, Statistics</p> |
| w/c 26/02/18 | <p style="text-align: center;">Prisms (Volume and Surface Area)</p> <p style="text-align: center;">Find the volume of prisms. How is this made more difficult when looking at cylinders? What other information do we need?</p> |
| | <p style="text-align: center;">Angles in Triangles</p> <p style="text-align: center;">What do angles in triangles add up to? Can you use algebra when working out these problems?</p> |
| | <p style="text-align: center;">Entry Level Revision</p> <p style="text-align: center;">Number, Operations, Ratio, Money, Time, Measure, Geometry, Statistics</p> |
| w/c 05/03/18 | <p style="text-align: center;">Circles (Sectors and Segments)</p> <p style="text-align: center;">Find the area and circumference of circle. How can you use this find the same for sectors of circles?</p> |
| | <p style="text-align: center;">Exterior Angles</p> <p style="text-align: center;">What do all exterior angles add to? Can you use this information to find out what the interior angle of polygons are?</p> |
| | <p style="text-align: center;">Entry Level Revision</p> <p style="text-align: center;">Number, Operations, Ratio, Money, Time, Measure, Geometry, Statistics</p> |
| w/c 12/03/18 | <p style="text-align: center;">Reflection and Rotation</p> <p style="text-align: center;">Without using tracing paper, reflect and rotate shapes. Can you do this using a combination of these transformations?</p> |
| | <p style="text-align: center;">Interior Angles</p> <p style="text-align: center;">Find the interior angles of any polygon. Can you prove the formula for this? Find exterior angles now/</p> |
| | <p style="text-align: center;">Entry Level Revision</p> <p style="text-align: center;">Number, Operations, Ratio, Money, Time, Measure, Geometry, Statistics</p> |
| w/c 19/03/18 | <p style="text-align: center;">Enlargement and Combinations of Transformations</p> <p style="text-align: center;">Enlarge shapes using a negative and fractional scale factor. Link this in with other transformations.</p> |
| | <p style="text-align: center;">Averages and Range</p> <p style="text-align: center;">Find the mode, median, mean and range from a list of numbers. Can you put this into a frequency diagram?</p> |
| | <p style="text-align: center;">Entry Level Revision</p> <p style="text-align: center;">Number, Operations, Ratio, Money, Time, Measure, Geometry, Statistics</p> |

| | |
|--------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| w/c 26/03/18 | Bearings and Loci Use the rule of bearings to solve problems. Link in parallel line angle facts and then move onto looking at loci. |
| | Estimating the Mean Estimate the mean from a table of values. What happens if the class widths are the same/different? How can you check your answer? |
| | Entry Level Revision Number, Operations, Ratio, Money, Time, Measure, Geometry, Statistics |

| Year 11 | |
|--------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| w/c 08/01/18 | Quadratic/Cubic/Reciprocal Graphs Plot the above graphs. Interpret their turning points and gradients. |
| | Generating a Sequence/Finding the nth Term Generate a sequence using the nth term. Find the nth term rule. This does not need to include quadratic sequences. |
| | Entry Level Revision Number, Operations, Ratio, Money, Time, Measure, Geometry, Statistics |
| w/c 15/01/18 | Units and Accuracy and Bounds (including Error Intervals) Find the upper and lower bounds of values. Present this as error intervals and use for area and perimeter. |
| | Properties of Shapes Use key words to describe properties of shape. Can you draw lines of symmetry and rotational symmetry on? |
| | Entry Level Revision Number, Operations, Ratio, Money, Time, Measure, Geometry, Statistics |
| w/c 22/01/18 | Volume/Surface Area of Compound Solids What information is needed to find the volume of solids? Can you use the volume to then find the surface area? |
| | Properties of Solids What are the properties of complexed solids? Can you draw comparisons between the surface area and volume? |
| | Entry Level Revision Number, Operations, Ratio, Money, Time, Measure, Geometry, Statistics |
| w/c 29/01/18 | Circles and Sectors Find the area of circles. Can you also find the perimeter/area of sectors? What about working backwards? |

| | |
|--------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | <p>Angles in Parallel Lines</p> <p>Use the definitions you've been taught to find missing angles on parallel lines. Can you use algebra in this too?</p> |
| | <p>Entry Level Revision</p> <p>Number, Operations, Ratio, Money, Time, Measure, Geometry, Statistics</p> |
| w/c 05/02/18 | <p>Transformations (including Combinations)</p> <p>Translate, enlarge, rotate and reflect shapes on coordinate axes. What happens if you have a fractional or negative scale factor?</p> |
| | <p>Angles in Triangles/2D Shapes</p> <p>Can you use angles in triangles and relate this to other 2D shapes? How about the angles of an n sided shape?</p> |
| | <p>Entry Level Revision</p> <p>Number, Operations, Ratio, Money, Time, Measure, Geometry, Statistics</p> |
| w/c 12/02/18 | <p>Bearings and Loci</p> <p>Use the rules of bearings to solve problems. Link this in with parallel lines. Can you follow instructions to construct different mathematical drawings?</p> |
| | <p>Pythagoras</p> <p>Use Pythagoras in 2D and 3D. Find both the shorter and longer side and then solve problems.</p> |
| | <p>Entry Level Revision</p> <p>Number, Operations, Ratio, Money, Time, Measure, Geometry, Statistics</p> |
| w/c 26/02/18 | <p>Solving Quadratic Equations</p> <p>Solve quadratics using a variety of methods. This needs to include factorising, completing the square and the formula.</p> |
| | <p>Trigonometry</p> <p>Use SOHCAHTOA to find angles and side lengths. Think about what information is needed to perform each of these.</p> |
| | <p>Entry Level Revision</p> <p>Number, Operations, Ratio, Money, Time, Measure, Geometry, Statistics</p> |
| w/c 05/03/18 | <p>Conditional Probability</p> <p>Solve problems using conditional probability. Remember to always check your answer and see if it is reasonable.</p> |
| | <p>Exterior and Interior Angles</p> <p>Find both exterior and interior angles of polygons. Ensure that you can use the formula for interior angles.</p> |
| | <p>Entry Level Revision</p> <p>Number, Operations, Ratio, Money, Time, Measure, Geometry, Statistics</p> |

| | |
|--------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| w/c 12/03/18 | <p>Tree Diagrams</p> <p>Construct tree diagrams from a description. Take this a step further and use algebra within a tree diagram.</p> |
| | <p>Averages (including from a table)</p> <p>Find an estimate for the mean from a frequency table. What need to change of this is a grouped frequency table?</p> |
| | <p>Entry Level Revision</p> <p>Number, Operations, Ratio, Money, Time, Measure, Geometry, Statistics</p> |
| w/c 19/03/18 | <p>Venn Diagrams</p> <p>Construct a Venn Diagram. Find probabilities and use set notation to solve problems.</p> |
| | <p>Sampling and Probability</p> <p>Use a variety of sampling technique. Take into account gender when sampling data and find probabilities.</p> |
| | <p>Entry Level Revision</p> <p>Number, Operations, Ratio, Money, Time, Measure, Geometry, Statistics</p> |
| w/c 26/03/18 | <p>Mapping Inequalities</p> <p>Use inequalities on a numberline. Can you solve quadratic inequalities? You will probably need to draw a sketch when doing this so take care!</p> |
| | <p>Indices</p> <p>Use laws of indices to multiply and divide. What happens if a value has a coefficient? Can you still use the rules?</p> |
| | <p>Entry Level Revision</p> <p>Number, Operations, Ratio, Money, Time, Measure, Geometry, Statistics</p> |