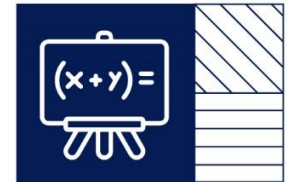




# Maths Curriculum Map

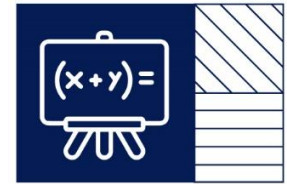


| Year  | Autumn   |  |  |   |
|---|--|--|--|---|
| 8   |  |  |  |   |
| <p><b>What Will Your Child Learn During This Term</b></p> | <p><b>Estimation and Rounding</b></p> <ul style="list-style-type: none"> <li>• Rounding to the nearest power of 10</li> <li>• Rounding to any decimal place</li> <li>• Rounding to any significant figure</li> <li>• Using rounding in estimation</li> <li>• Understand and find limits and bound of a given situation and state the error interval</li> <li>• Using rounding in problems solving</li> </ul> | <p><b>Sequences</b></p> <ul style="list-style-type: none"> <li>• Understand different types of sequences</li> <li>• Recognise sequences in our everyday lives</li> <li>• Complete sequences with missing terms</li> <li>• Find the nth term rule of a linear sequences</li> <li>• Be able to determine if a term is part of a linear sequences or not.</li> <li>• Be able to identify quadratic sequences, geometric and Fibonacci sequences.</li> </ul> | <p><b>Graphical Representation of Linear Relationships</b></p> <ul style="list-style-type: none"> <li>• Plotting linear equations using an xy table</li> <li>• Understand and derive gradients from any given information</li> <li>• Understand the difference between positive and negative gradients</li> <li>• Find the x and y intercept of any line</li> <li>• Understanding the equation of a line in the form of <math>y = mx + c</math></li> <li>• Use the intercept-gradient method to plot linear graphs</li> <li>• Finding is a point lies on a given line</li> </ul> | <p><b>Solving Linear Equations</b></p> <ul style="list-style-type: none"> <li>• Confident with the idea of equivalence in algebra</li> <li>• Forming equations in a given situation</li> <li>• Solving one and two step equations</li> <li>• Solving equations with brackets</li> <li>• Solving equations with fraction by understanding them as division problems</li> <li>• Exploring equations with an unknown on either side of the equation</li> </ul> |

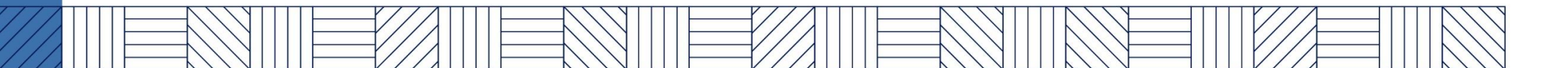


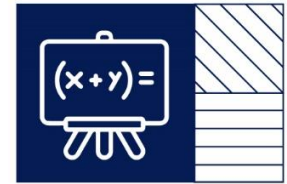
|   |   |  |   |  |
|---|---|--|---|--|
| <p><b>Home learning/how parents can help?</b></p> | <p><b>Homework</b></p> <p>Students are given weekly homework that encourages them to use the knowledge that they have been through in high school and primary school.</p> <p>This is important as this allows them to retrieve previous learning and helps solidify knowledge in students' long-term memory. Students should know what day their homework will be checked and must have it when they come to that lesson.</p> | <p><b>MyMaths</b></p> <p>All students have access to their individual account on MyMaths: <a href="http://www.mymaths.co.uk">www.mymaths.co.uk</a></p> <p>Students are asked to keep their user name and password safe in their planner. They can access different lessons that we are completing in class to enhance their understanding of the learning and knowledge that they have gained.</p> | <p><b>Schemes Of Work</b></p> <p>All students have a scheme of work stuck in their maths books. This is a list of the topics that they will cover during the year. It is a simplified version of the steps they will cover so they can keep a track of what they have completed and what they are yet to learn.</p> | <p><b>Presentation in Mathematics</b></p> <p>In homework and classwork as a department we follow a very strict presentation policy and all students should be aware of it and follow it at all times. Our presentation policy is that all homework and classwork should have the questions, working out and answers. This is an important practice that will enable them to access the most marks in their exams as there is always marks allocated for working out.</p> |
|---|---|--|---|--|





| Year   | Autumn  |   |  |  |
|--|---|---|--|--|
| 8  |   |   |  |  |
| <p><b>What Is The Prior Learning That Your Child Is Expected To Know</b></p> | <p><b>Solving Linear Equations</b></p> <ul style="list-style-type: none"> <li>Confident with the idea of equivalence in algebra</li> <li>Forming equations in a given situation</li> <li>Solving one and two step equations</li> <li>Solving equations with brackets</li> <li>Solving equations with fraction by understanding them as division problems</li> <li>Exploring equations with an unknown on either side of the equation</li> </ul> | <p><b>Sequences</b></p> <ul style="list-style-type: none"> <li>Generate and describe linear number sequences</li> <li>Use simple formulae</li> <li>Understand multiples</li> <li>Understand integer powers and roots</li> <li>Understand and use the conventions and vocabulary of algebra, including forming and interpreting algebraic expressions and equations</li> </ul> | <p><b>Graphical Representation of Linear Relationships</b></p> <ul style="list-style-type: none"> <li>Describe positions on the full coordinate grid (all four quadrants)</li> <li>Find pairs of numbers that satisfy an equation with two unknowns</li> <li>Enumerate possibilities of combinations of two variables</li> <li>Understand and use the conventions and vocabulary of algebra, including forming and interpreting algebraic expressions and equations</li> </ul> | <p><b>Solving Linear Equations</b></p> <ul style="list-style-type: none"> <li>Express missing number problems algebraically</li> <li>Find pairs of numbers that satisfy an equation with two unknowns</li> <li>Enumerate possibilities of combinations of two variables</li> <li>Understand and use the conventions and vocabulary of algebra including forming and interpreting algebraic expressions and equations</li> <li>Simplify algebraic expressions by collecting like terms to maintain equivalence</li> <li>Manipulate algebraic expressions using the distributive law to maintain equivalence</li> <li>Understand and use the structures that underpin addition and subtraction strategies</li> <li>Understand and use the structures that underpin multiplication and division strategies</li> <li>Know, understand and use fluently a range of calculation strategies for addition, subtraction, multiplication and division of fractions</li> <li>Use the laws and conventions of arithmetic to calculate efficiently</li> </ul> |





**Home  
learning/how  
parents can  
help?**

**MyMaths**

All students will have fixed assigned tasks on MyMaths. They should use these assignments to check their prior knowledge. The class teacher will direct the students to which tasks they should complete to improve their prior knowledge.

This is not part of the homework, this is extra work that students should complete to enhance their learning and increase their fluency in maths.

**Missed a Lesson**

In Key Stage 3 we are using MyMaths lessons and tasks to help students catch up in the case that they have missed a lesson. This helped them to be ready to engage with their next maths lessons and increases their chance to success.

The title of the lesson will be shared by the teacher and they need to find it on MyMaths and complete the lesson to enhance their learning within the classroom. Positive points will be awarded for this as it shows their resilience and high aspirations

