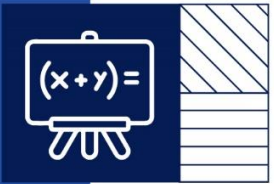
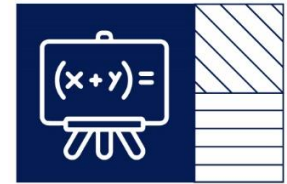




Maths Curriculum Map

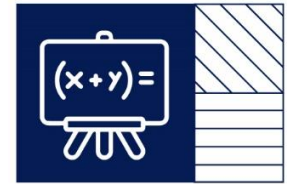


| Year | Spring | | | |
|---|---|--|--|--|
| 8 | | | | |
| <p>What Will Your Child Learn During This Term</p> | <p>Multiplicative Relations - Percentages and Proportionality</p> <ul style="list-style-type: none"> Understand and use the multiplicative relation in any situation, such as when comparing similar shapes Understanding the multiplicative aspect of converting between currencies Understanding the multiplicative aspect when working with maps Understanding percentages and being able to find any percentage of an amount Understanding percentage increase and decrease and the use of multipliers Finding the percentage change in any situation Understanding algebraic and graphical understanding of direct proportion Understanding algebraic and graphical understanding of inverse proportion | | <p>Statistical Representation</p> <ul style="list-style-type: none"> Understanding what the different averaged represent and how we can use this information Confident in finding the mean, median, mode and range of a set of data Construct, interpret and use bar charts in problem solving Construct, interpret and use pie charts in problems solving Construct, interpret and use scatter graphs in problems solving | <p>Statistical Analysis</p> <ul style="list-style-type: none"> How and when we need to use different averages including the median, mean, mode and range Understanding outliers and their effect on a set of data Measuring and comparing averages and what information we can conclude about different situations How to collect data and how to ask the necessary questions that will be useful to analyse <p>Be able to analyse any given data effectively and efficiently</p> |

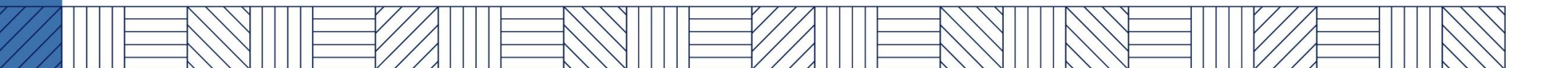


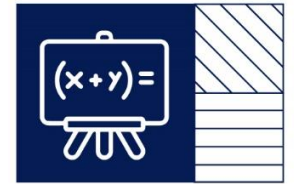
| | | | | |
|---|---|--|---|--|
| <p>Home learning/how parents can help?</p> | <p>Homework</p> <p>Students are given weekly homework that encourages them to use the knowledge that they have been through in high school and primary school.</p> <p>This is important as this allows them to retrieve previous 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>MyMaths</p> <p>All students have access to their individual account on MyMaths: www.mymaths.co.uk</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>Schemes Of Work</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>Presentation in Mathematics</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 | Spring | | | |
|--|---|--|--|---|
| 8 | | | | |
| <p>What Is The Prior Learning That Your Child Is Expected To Know</p> | <p>Multiplicative Relations - Percentages and Proportionality</p> <ul style="list-style-type: none"> Recognise the per cent symbol (%) and understand that per cent relates to 'number of parts per hundred', and write percentages as a fraction with denominator 100, and as a decimal. Use all four operations to solve problems involving measure (for example, length, mass, volume, money) using decimal notation, including scaling. Solve problems involving the relative sizes of two quantities where missing values can be found by using integer multiplication and division facts. Solve problems involving the calculation of percentages and the use of percentages for comparison. Solve problems involving similar shapes where the scale factor is known or can be found. Solve problems involving unequal sharing and grouping, using knowledge of fractions and multiples. | | <p>Statistical Representation</p> <ul style="list-style-type: none"> Calculate and interpret the mean as an average. Draw given angles and measure them in degrees (°). <p>Interpret and construct pie charts and line graphs and use these to solve problems</p> | <p>Statistical Analysis</p> <ul style="list-style-type: none"> Interpret and present discrete and continuous data using appropriate graphical methods, including bar charts and time graphs Solve comparison, sum and difference problems using information presented in bar charts, pictograms, tables and other graphs Solve comparison, sum and difference problems using information presented in a line graph Complete, read and interpret information in tables, including timetables Interpret and construct pie charts and line graphs and use these to solve problems Calculate and interpret the mean as an average Understand and calculate accurately measures of central tendency and spread Construct accurately statistical representations |





**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

