

Key stage 3

What is being taught?

Year 7 - This term, we will begin looking probability and understanding the probability scale and how this can be displayed and interpreted. We will look at the uses of probability, when and how this can be used in real life as well as the ways that it can be displayed in questions and how to approach them.

Year 8- We again will begin the term with a recap and extension on the probability scale before moving onto the more statistical side of Mathematics, where we will look at the different averages- mean, median, mode, range- and when they are useful. This will allow us to delve into data interpretation and presentation, looking at pictograms, frequency tables, mutually exclusive outcomes and two-way tables.

Year 9 - The term will begin with a probability recap leading onto Statistics. We will investigate grouped and ungrouped data and how this can be collated and presented using different methods. We will look at pictograms, bar charts, frequency tables and frequency diagrams to name a few. We will look in depth at the use of averages and the mean average, two-way tables and mutually exclusive events and how we can use them.

How is it being taught?

This term we will be creating our own set of data that we can group, interpret, analyse and present in different ways supporting their learning and understanding of the different ways the same data can be represented as well as strengthening the understanding that some representations of data work better in certain experiments. When looking a probability, we will be using dice and counters to record data to use for probability outcomes as well as frequency tables. There will also be the social aspect of this term, where we will be asking learners within the school for their input into each learners individual data collection.

We have a very 'hands on' approach to teaching Maths. The link between the action and retention is something that we work on in the maths department. We use a lot of kinaesthetic learning to support understanding within every topic in the classroom. Along with this the topics will be linked to careers and 'real life' situations allowing the learners to have an understanding as to why they are learning it and how it can support them in their journeys. This may be seen in learning outside the classroom and going into the community to put the maths skills we have learned into practice to confirm that the learners are gaining the skills they will need later in life as well as creating an experience that aims to link the retained information into schemas and into their long term memory.

Our aim is to learn outside the classroom and to make maths fun!

Key stage 4

What is being taught?

This is the beginning of our statistical term.

Vocational- This term we will be looking at probability and the language used in exam type questions as well as experimental probability before moving on to interpreting data from multiple representations; these range from bar charts, pictograms, scatter graphs, frequency trees, frequency diagrams, frequency tables, vertical line charts and Venn diagrams. We will cover averages looking at the mean, median, mode and range of given sets of data as well as some that they will have collected.

Academic- This term we will be looking at the representation and interpretation of data in all form and how this would look in exam type questions. This will look into the language used in questions and interpreting it. We will also be collecting our own set of data and analyse this on how it could be more reliable, accurate and could it be grouped in a different way when looking at it from a different aspect. We will also be recapping the skills learnt in data analysis and representation. We will also recap and extend on probability and the use pf probability trees and create some of our own.

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