

Year 9

Spring 1st Half-Term

Maths

Students will begin this term by revisiting different data sets. We will consolidate our understanding of discrete data and look at how we can handle continuous data. We will learn how to represent data in frequency diagrams and how to calculate averages from grouped data. We will then use these averages to analyse data and be able to make informed decisions on which averages are best to use.

We will move on to simple interest and working with percentages. We will be able to use both calculator and non-calculator methods to increase or decrease by a certain percentage as well as working backwards to find original values.

We will finish the term studying polygons. Students will carry out their own investigations to find rules for the sum of interior and exterior angles for various polygons. Students should then be able to use protractors to accurately construct different shapes.

English

In English this term pupils will focus on writing skills and styles using a range of images and short texts as a stimulus. Pupils will examine and use appropriate and effective vocabulary such as similes, metaphors and personification in order to create imaginative and interesting texts. Pupils will learn how to sequence ideas; information and events. They will continue to proof read, edit grammar and punctuation for technical accuracy. The reading sessions will consist of retrieval, inference and clarifying.

Science

This term pupils will be able to explain the process of mutations, natural selection and selective breeding and being able to compare the difference between mitosis and meiosis. Pupils can describe how metals are arranged in the reactivity series, recall the main features in the process of electrolysis and predict the products of acids reacting with bases and explain factors affecting rate of reaction. Students can define and identify transverse/longitudinal waves and the properties associated with it. In addition, calculate wave speed, and describe how electromagnetic waves are grouped.

Art

This term Students will be studying the anatomy of insects. During this process students will draw from sources, create collage and model artwork based on insect heads. The students will create a cardboard armature of an insect inspired head.

Humanities

Pupils will examine the contributing factors to WW1 and the overall effects on Britain and the soldiers who fought during the war. Pupils will use subject terminology where appropriate, reference ideas and points using facts in order to develop an informed personal response. Pupils will create graphs and use maps and other sources to inform their ideas.

ICT

Students will consider the best ways of managing information, including where to save work. We will learn about File extensions. Students will learn about computer viruses. *Entry Level 2 content: enter and edit information for a simple given purpose / bring together two given types of information / use ICT-based communication.*

PSHE

Respectful relationships - In PSHE this term we will explore families and parenting, healthy relationships, conflict resolution, and relationship changes. We will focus on healthy relationships, pressure and reasons to delay starting sexual activity, including understand the law and recognising coercion. We will focus on the importance of consent, using active learning techniques to practise the skills needed to seek, recognise, give, not give and withdraw consent. We will also explore contraception sexual health, including reducing the risk of STI's through condom use and how to access local and national services for help and support.

PE

Basketball - Students will learn to develop a better dribbling skill set (in and out, crossover and behind the back). They will learn the fundamentals skills of defence. We look at the development of shooting mechanics from set shots to full motion shots. Students will understand the mechanics of a euro step lay up and we will compete 2 v 2.

Work Skills

Students will be exploring remuneration, deductions, wages and Salaries. Students will explore minimum wage and explore jobs that they are interested in and look at their wages. Students will understand pay advice slips, taxation, superannuation and National Insurance.

Music

UNIT 3 provides an understanding in music technology and the recording process. These introduces both the technical and performance attributes of music technology Develop and use ICT, communication, project management, time management and team working skills and increase learners' awareness of the different aspects of music technology.

Catering

Pupils will deepen their knowledge on food choice and different factors that can influence someone's food choice. We will be focusing on different types of religion and why they choose not to eat certain food products. We will look at how alternatives can be used in everyday dishes. Pupils will learn why different religions have traditional dishes for different types of occasions