

Year 11

Spring 1st Half-Term

Maths

Students will begin this term by recapping and consolidating their knowledge around linear equations. We will build on this knowledge to be able to expand two and three brackets and recognise quadratic and cubic equations. Students will use factorising skills to help them sketch and interpret graphs of quadratic equations.

We will then move on to closely study relationships between operations, including inverse operations. Students will use conventional notation for priority of operations, including brackets, powers, roots and reciprocals. They will be able to apply the four operations, including formal written methods, to integers, decimals, fractions (proper and improper), and mixed numbers – all both positive and negative.

English

In English this term, pupils will be learning how to critically evaluate 19th and 20th century texts. Drawing on knowledge of the purpose and audience for the context of the writing, including social historical and cultural context. Pupils will explore aspects of plot, characterisation, events and setting. Pupils will use evidence in the text to support a point of view, including justifying inferences, collecting and organising ideas and facts. Subject specific vocabulary will be used in context in oral and written work. Exam questions will be used throughout to refine the skill of responding to exam style questions. The reading sessions will consist of retrieval, inference and clarifying.

Science

Year 11 students will be recapping the structure of an atom, defining protons, neutrons, electrons, ions & isotopes, and explain how the model has changed over time and also explain what nuclear decay is and give key properties of alpha, beta and gamma radiation including using nuclear equations and determining half life as well as evaluate safety of nuclear radiation. Students will be able to define; transverse/longitudinal waves, amplitude, wavelength, period and frequency and where appropriate identify them in diagrams, calculate wave speed as well as state the method to measure speed of sound waves in air and water ripple, and also describe how electromagnetic waves are grouped giving their key properties and uses as well as explain how they might interact with different substances/types of surfaces. Students will be able to explain the differences between continuous and discontinuous variation, using examples of a range of characteristics found in plants, animals and other organisms and apply the theory of evolution to suggest how a specific organism evolved. Pupils use direct proportion and simple ratios to express the outcome of a genetic cross and construct a genetic cross by Punnett square diagram and use it to make predictions using the theory of probability.

Art

This term all Y11 students are working towards GCSE art. They are investigating the theme of Power and Weakness. They are creating mind maps, artist research pages and photomontage around the theme. This work goes towards their GCSE portfolio, which will be marked in May.

ICT

Students will be learning about managing information, including organising files and folders and comparing different cloud storage providers. *Functional Skills Level 2 content: enter, develop and refine information using appropriate software to meet requirements of a complex task.*

PSHE

Communication in relationships - This term in PSHE we will revisit and extend both the knowledge and skills needed to navigate personal values, assertive communication (including in relation to contraception and sexual health), relationship challenges and abuse. We will develop and explore core values and emotions in the context of maturing relationships. We will understand, recognise and develop skills to respond to all forms of domestic violence, and unwanted attention such as stalking and harassment. Pupils will learn about honour -based violence, forced marriage and FGM. Pupils will learn how to access appropriate help and support for both themselves and others.

PE

Basketball - students will understand the techniques of learning how to box out. We will develop an understanding of the art of rebounding and develop confidence in shooting ability. We will compete by playing 5v5.

Work Skills

Produce a folder that includes your own CV and covering letter templates that you can continually adapt for your personal use. Students will look at applying for their post 16 options and begin to apply for their future career paths.

Citizenship

Theme D: Power and Influence

Students will use both previously learned and newly acquired knowledge to review how well the media holds those in power to account through analysing cases of investigative journalism. They will then answer a series of mock-exam style questions

Catering

Pupils will be finishing off their student handbook and assessment support pack. Pupils will be looking at case studies on how to set up a kitchen, cupboard essentials and fridge and cupboard management. Pupils will be looking at ways you can economise by cooking at home and create a poster for a friend giving them all the information they need.