

# Year 7

## Autumn 1<sup>st</sup> Half-Term

### Maths

This term we will be looking at factors, multiples and also sequences. Students will understand and use highest common factors and lowest common multiples. Students will know what prime numbers are and find the prime factors of an integer. Pupils will be able to recognise, describe and generate sequences that use a simple rule, be able to identify missing terms in a sequence and recognise sequences such as square and triangular numbers.

### English

DRACULA - Students will explore the cultural and historical context of the novel, learning to show empathy towards the main character. Students will study how tension and suspense is created through analysis of the writer's craft. Pupils will use the techniques they have learned to create diary entries, leaflets and instructional leaflets. We will be learning about 19C British society including values, beliefs and ideologies held during that time. We will learn about different writing techniques, reading for meaning and how to redraft our own work through skills such as proofreading.

### Science

Students will look at the key organelles and their functions in plant and animal cells and be able to use a light microscope. Students will be able to state the electrostatic charge of protons, neutrons and electrons – introduction to atoms. The concept of diffusion will be explored. Students will then understand the different types of energy transfers as well as describe different renewable and non-renewable energy sources. Students will be introduced to the components of a basic circuit and determine the difference between series and parallel circuits.

### Art

Students will be introduced to the colour wheel. Students will learn about primary, secondary and tertiary colours. They will also learn about the combination of colour, such as complementary colours. Students will create a colour wheel.

### Humanities

Pupils will learn about the early settlers, where they choose to settle and why. Pupils will learn where the invaders came from and in which time period. Pupils will identify ways in which each group improved or changed life in early Britain and decided who had the most significant impact and why. Pupils will explore the battle of 1066, the weapons used.

### PSHE

Health and Wellbeing - Transition and safety - We will be exploring the knowledge, understanding and skills needed for transition to secondary school and personal safety in and outside school, including basic first aid. We will also learn how to identify, express and manage emotions including how to establish and maintain friendships.

### PE

Boxing - Students will learn a basic boxing stance, and how this provides stability, movement and footwork. Through pad-work students will learn three basic punches. Boxing will be non-contact at this stage – pad work only. Students will begin to understand that discipline is a central feature of successful boxers.

## Work Skills

Personal Skills and Qualities. Difference between skills and qualities. Considering the different skills and qualities required by different occupations. Identifying our own skills and qualities.

## Music

Understand the language and terminology used in the music industry and explore how music is created, produced and communicated, including through the inter-related dimensions: pitch, duration, dynamics, tempo, timbre, texture and structure. (UNIT 1).

## Catering

Pupils will be developing their knowledge and understanding of ingredients and healthy eating by looking at the Eatwell guide. Pupils will also be developing their knowledge on food provenance. We will be developing our knife safety and skills. We will be learning how to cut ingredients into different forms such as diced, batons, macédoine, julienne and fine julienne.