

RAP^V V1

Autumn 1st Half-Term

Maths

Use of number and the number system: students at Level 1 are expected to be able to count in steps of various sizes, including negative numbers; read, write and understand positive whole numbers to one million. They can order and compare whole numbers of any size, and fractions, ratios and decimals and recognise the effect of multiplying and dividing by powers of 10, 100 and 1000. They can identify, compare and extend a range of numerical and spatial patterns, use, understand and calculate with fractions, decimals and percentages and calculate simple interest.

English

Students, in our vocational suite focus on all 3 key aspects of English: Reading, Writing, Speaking and listening.

This entails the following - Reading comprehension for Functional skills/AQA/IGCSE English Language exams. The study of Audience, Form and Purpose is also highlighted and developed. This ultimately leads to the study of different writing styles (Persuasive, Instructive, Argue, Describe) and their key features.

As a result, we encourage students to develop their individual writing styles with the aim to add depth and detail to their written work. This all benefits examination skills. RAPV students are further supported in finding their own voice and developing their vocabulary fully.

Students will engage with an array of established novels, short stories and well-written articles.

Science

Students will do the following; consider the main organelles and their roles in eukaryotic and prokaryotic cells giving examples of specialised cells with their adapted features as well as explain mitosis. Students will be able to explain the use of stem cells in animals and compare and give examples of diffusion, osmosis and active transport.

Students will explain how enzymes are affected by temperature and substrate concentration. Students explain how structure is related to the function of arteries, veins and capillaries, as well as major plant structures & cells. In chemistry, main features of an atom and the periodic table including how they were developed, common trends between different groups, metals and non-metals and also complete/balance word and symbol equations (inc atomic mass and charge calculations). Different energy transfers and calculations will be completed. Pros and cons of different renewable and non-renewable energy sources shall be investigated. Students can define electrical charge, current, potential difference/ voltage and resistance and calculate the majority of the value of these quantities by interpreting series or parallel circuits diagrams as well as interpret IV graphs.

Construction

Learners will be studying the Pearson BTEC level 1/2 Introductory Award/Certificate in Construction. This first half of the Autumn term we will be learning about carpentry and making simple joints and frames using hand tools only. We will also learn about tools, equipment and materials in carpentry.

We will also be studying a unit about construction technology, which is about roofs, walls, floors and foundations.

Art

This term students 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 Y11 or taken to their next school.

ICT

Students will learn the Legal Framework around IT including Copyright law, Data Protection laws and Computer Misuse act. *Functional Skills Level 1 content: identify the ICT requirements of a straightforward task / interact with and use ICT systems to meet requirements of a straightforward task in a familiar context.*

PSHE

Health and Wellbeing

Mental health

We will be exploring mental health and ill health, stigma, and safeguarding health during periods of transition or change. We will learn tools for building emotional resilience and we will learn when and how to access support and treatment.

PE

Boxing - This term our boxing focus will be on footwork, stance, body-movement and defence. Discipline –students will begin to understand mental toughness and what it takes to be mentally tough.

Music

UNIT 1 aims to provide the learner with knowledge of studio equipment and functions. Learners will then use a variety of equipment to produce and record sound sources. This unit will allow learners to develop communication and ICT skills when using the equipment, whilst allowing them to develop a sound understanding of studio and broadcast technology. Pupils will understand the role of common items of recording studio equipment.

Catering

Introduction to the BTEC Home Cooking Level 1 unit Introduction to the BTEC Home Cooking Level 2 unit with focus on the structure of learning and assessment. We will cook each week following a demonstration and discussion. We will be identifying our skill development by completing either a sensory evaluation or a BTEC skills sheet.