

The Constance Bridgeman Centre - Year 10: Spring 2.2

English

In English this half term students will focus on developing the reading and analytical skills required for GCSE English Language Paper 1. Students will practise retrieving information, making inferences and analysing how writers use language to create meaning and effect. They will explore a range of unseen fiction extracts, learning how to select precise evidence and explain the impact of vocabulary, imagery and figurative language. Regular exam-style practice and feedback will help students develop confidence in responding to GCSE language analysis questions.

Maths

In Maths this half term students will develop their understanding of geometry through transformations, circles and Pythagoras' theorem. They will begin by applying translations to shapes on a coordinate grid and using vector notation to describe movements accurately. Students will then revisit reflections and rotations before exploring enlargements, including calculating scale factors and identifying centres of enlargement. They will combine their knowledge to perform and describe multiple transformations. Building on prior learning about circles, students will calculate circumference and area using formulae and apply these skills to real-life problem-solving situations, including reverse calculations to find missing measurements. Finally, students will explore Pythagoras' theorem, using it to calculate missing sides in right-angled triangles and solve increasingly complex problems, including practical applications involving distance, navigation and measurement.

Science

In Science this half term students will investigate chemical changes, exploring oxidation, reduction, reactivity and the extraction of metals. They will study acids, alkalis and neutralisation before learning how electrolysis is used to extract and produce useful substances. Through practical investigations, students will develop their understanding of chemical reactions and apply the reactivity series to predict outcomes. They will also explore the importance of chemistry within manufacturing, engineering and sustainable resource management while developing their practical and analytical skills.

Art

In Art this half term students bring together the knowledge and skills developed throughout the Identity project to create a cohesive body of work. They will organise and present sketchbook evidence, making clear links between artist research, experimentation and personal responses. Practical work will focus on refining techniques and improving the quality of outcomes through sustained use of a range of media. Students will continue to evaluate their work through reflection and feedback while developing confidence in communicating their intentions. The project concludes with a series of connected outcomes that demonstrate creativity, technical skill and an increasingly personal artistic style.

Food Technology

In Food Technology this half term students will be studying 'Menu Planning and Customer Needs'. Students will explore how menus are designed within hospitality and catering settings to meet the needs of different customer groups and occasions. They will investigate factors that influence menu planning, including nutritional balance, dietary requirements, cost, seasonality, sustainability and customer expectations. Students will also examine how culture influences menu choices, ingredients and presentation styles from around the world. Practical lessons will focus on preparing and presenting dishes inspired by global cuisines while developing organisation, time management and presentation skills. Students will learn how to adapt recipes to meet specific dietary needs and evaluate their dishes using hospitality and catering terminology, considering flavour, presentation and customer satisfaction.

Music

In Music this half term students will explore musical traditions from around the world, including Samba, African Drumming and Film Music. They will investigate how rhythm, instrumentation and culture influence different styles and consider how music communicates atmosphere, emotion and identity. Through practical ensemble work and composition activities, students will develop timing, pulse and collaborative performance skills. Digital technology will be used to record and refine musical ideas, while analytical activities will strengthen understanding of musical terminology. Throughout the unit, students will evaluate and improve their work through reflection and feedback, preparing for more sustained coursework activities.

PE

In PE this half term students will develop their badminton skills through a range of practical drills, rallies and competitive singles and doubles matches. Students will refine serving, overhead and net shots while improving footwork, movement and court positioning. They will learn how effective shot selection, anticipation and tactical decision-making influence performance during competitive play. Throughout the unit, students will build confidence, resilience and independence while evaluating their own performance and demonstrating respect and sportsmanship during competition.

PSHE

In PSHE this half term students will explore the beliefs, practices and traditions of Buddhism and Judaism. They will investigate the lives of Siddhartha Gautama and Abraham, examining how their teachings continue to influence millions of people around the world. Students will explore sacred texts, places of worship, religious festivals and key beliefs surrounding morality, suffering and the purpose of life. By comparing Buddhism and Judaism with other world religions studied previously, students will deepen their religious literacy while developing empathy, respect and an appreciation of the diversity of beliefs within contemporary society.

Sports Science

In Sports Science this half term students will complete their PSA controlled assessment for Component 1, demonstrating their understanding of the key principles and knowledge related to the subject. This assessment will enable them to apply theoretical concepts practically, consolidate their learning, and prepare for future coursework and examinations.to sporting success.

Enrichment

As part of the Enrichment Programme, students will be given the opportunity to experience:

Climbing: This half term, students will participate in a range of climbing activities, including bouldering and roped climbing. They will develop confidence, resilience, and problem-solving skills while learning safe climbing techniques, movement, and route planning. The programme encourages students to challenge themselves, build trust, and work collaboratively while improving strength, coordination, balance, and perseverance. Through progressively challenging activities, students will develop determination, self-belief, and an appreciation for safe risk-taking in a supportive environment.