Autumn Term / Curriculum Overview

Year 10

Core

English

A Christmas Carol by Charles Dickens
Students will read Charles Dickens' A Christmas Carol in full, exploring how Dickens presents Scrooge's transformation. They will also encounter relevant information about life in Victorian England, considering how Dickens is using the text to comment on society at the time. After their studies of the novella, students will use the text's themes as the basis for their own pieces of persuasive writing.

Mathematics

Co-ordinates and linear graphs
Rounding and boundsCollecting and representing data
Sequences
Perimeter and Area ,
Working with circles
Ratio and Proportion
Real Life Graphs
Properties of polygons
Equations

Science

Pupils will cover the following topics in Science:

Biology — Bioenergetics;
Chemistry — Quantitative Chemistry; Chemical Changes;
Physics — Atomic Structure;

PSHE

10.1.1 - Managing My Mental Health
Change and Mental Health
Negative Thinking
Emotional Wellbeing
Mental Ill-Health
Help for people with mental ill-health
Mental Health and the Media
Stigmas of Mental Ill-Health

10.1.2 - Money Matters
Pay & Taxation
Maintaining A Household Budget
Credit & Debt
Money Worries

10.1.3 - World Issues
Types of government
Saving the World

History

British Thematic Study: Unit 2 (81452) / AA Britain: Health and the people: c1000 to the present day Key skills: Chronology / Enquiry / Continuity and Change / Significance / Making Connections / Drawing Contrasts Key Content Areas Included: Medicine stands still: Medieval/Middle Ages, C1000 – 1500 The beginnings of change: The Renaissance/Early Modern Period, 1500 – 1800 A revolution in medicine: Industrial Period/C19th, 1800 – 1900 / Modern medicine: 1900 – Present Day

Geography

Introduction to GCSE Geography / required skills and writing techniques.
Climate change: Global warming, The Greenhouse Effect, Climate change impacts on wildlife, habitats and tourism. A low carbon future. Reducing the risk of climate change.
Coasts: Weathering and erosion, Mass movement and caves, Headlands and bays, Transportation / Longshore Drift and spits. Beaches and estuaries, Hard and soft engineering, Shoreline Management Plans, Extreme weather events, Climate change and coasts, Exam question practice.
Water management: How water supply and demand is changing. Impacts of

Spanish

Unit 1: Identity and relationships with others
Describing physical appearance, describing yourself and personality, marital status, family relationships, what makes a good friends.
Grammar: using verbs *ser/estar, ir, hacer, tener* and *salir* , reflexive verbs.

Unit 2: Helathy living and lifestyle
Healthy lifestyle, keeping fit, going out to eat, different diets,
Grammar: Question words, *tener* expressions, radically changing verbs, *tener* and *deber que* , subject pronouns, immediate future tense

French

Unit 1: Identity and relationships with others
Describing physical appearance, describing yourself and personality, marital status, family relationships, family.
Grammar: Present tense, reflexive verbs, position of adjectives, adjective agreement.

Unit 2: Helathy living and lifestyle
Food preferences, helath problems and additions, lifestyle choices and habits, recent activities in past.
Grammar: Position of adverb, negative sentences, plural nouns, near future tense, perfect tense (past).

Religious Studies

Islam: Muslim Beliefs- Six beliefs, 5 Roots of the Usul-a-din, Nature of Allah, Risalah, Holy Books, Malaikah, Al-Qadr, Akirah.

Islam: Crime and Punishment- Justice, Crime, Good Evil and Suffering, Puinishment, Aims of Punishment, Forgiveness, Treatment of Criminals, Capital Punishment

TECHNICAL

Product Design

Cabinet: application of design / construction techniques, Primary research, Initial Design Ideas, Isometric Drawing, Inspired Designs
Unit 3 Materials Theory: Developments in modern and smart materials; composite materials and technical textiles; the categorisation of the types and properties of materials; the sources, origins, physical and working properties of the material categories or the components and systems, and their ecological and social footprint
Unit 1 New & Emerging Technologies: the impact of new and emerging technologies on industry, enterprise, sustainability, people, culture, society and the environment, production techniques and systems.

Food Technology

Commodity 1: Fruit and vegetables, including potatoes (fresh, frozen, dried, canned and juiced) / Preparation and practical cooking of commodity; Provenance; How commodity is grown/reared and processed; Classification; Nutritional values (include sources, functions, deficiencies, excess, daily requirements); Dietary considerations; Food science.
Commodity 2: Milk, cheese and yoghurt / Preparation and practical cooking of commodity; Provenance; How commodity is grown/reared and processed; Classification; Nutritional values (include sources, functions, deficiencies, excess, daily requirements); Dietary considerations; Food science.

Computer Science

1 Binary and denary
2 Introduction to programming
3 Hex and Ascii
4 String manipulation and selection
5 Secondary storage and FDE cycle
6 Arrays and two D arrays
7 Operating systems and utilities
8 Loops, procedures and functions
9 Types of sorting algorithms
10 Malware
11 Python turtle
12 LAN, WAN and wireless technology

PERFORMANCE

Art

Project 1 - Coursework (60% of overall GCSE) THEME = REFLECTIONS.
GCSE Art is one continuing project throughout year 10 and 11 .In Year 10, pupils work independently, guided by teachers to develop their own skills and artistry. Work may differ slightly dependent on pupils' skills and interests.
Autumn Term Focus: Investigating ideas within the theme of sunflowers and experiment with ideas and materials ued for drawing and painting. Students will be investigating a number of dofferent artists including Van Gogh, Piet Mondrian and Ricardo Chavez Mendez.

Drama

Component 2: Devising Thematic Creation and performance of a monologue script from a stimulus.
Component 1 and 3: Blood Brothers. Respondong to drama, knowing and understanding social, historical and cultural contexts including the theatrical conventions of the period in which the performance texts were created.

Physical Education

Structure & Function of the Skeletal System: Bones in the body / Functions of the skeleton / Movement at joints / Tendons, ligaments and cartilage / Major muscles in the body / Antagonistic pairs / Planes of movement / Axis of rotation / The lever system/cardiorespiratory system/effects of exercise on the body systems. Student will start their NEA coursework.

Music

Music for Stage and Screen: Set Work – Defying Gravity and **Star Wars**
Ensemble Performance
Solo Performance