



Half Term 2 Subject Overviews: What your child will be learning this half term

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Y12

| English Language | English Literature | Maths (Pure) | Maths (Applied) | Biology | Chemistry | Physics | Applied Science | Geography | History |
|--|--|--|--|--|---|--|---|---|--|
| <ul style="list-style-type: none"> Identifying and applying appropriate methods of language analysis Exploring connections in texts Exploring how language is shaped according to audience, purpose, genre and mode Demonstrating critical understanding of concepts and issues relevant to language | <ul style="list-style-type: none"> Frankenstein Poems of the decade Understanding features of genre and conventions in poetry Understanding different ways of reading texts How writers use and adapt language, form and structure in texts | <ul style="list-style-type: none"> Graphs and transformations Straight line graphs Circles Finding intersections of straight lines and circles Using tangent and chord properties Algebraic methods | <ul style="list-style-type: none"> Fundamental quantities and units Using derived quantities and units The differences between position, displacement and distance Differences between velocity and speed Understanding the concept of a mathematical model | <ul style="list-style-type: none"> Structure of nucleotides Structure of ATP & ADP Structure of DNA Semi-conservative replication Transcription and translation Fluid mosaic model Osmosis and diffusion Enzymes as catalysts Coenzymes Cofactors Enzyme inhibitors | <ul style="list-style-type: none"> Percentage yield Atom economy Dissociation in acids Neutralisation Acid-base titrations Oxidation numbers Redox Electron configurations Giant ionic lattices Properties of ionic compounds Covalent bonding Trends in reactivity Enthalpy | <ul style="list-style-type: none"> Wave phase and superposition Stationary waves Diffraction of laser light using a double slit and diffraction grating Snell's Law Refraction Total internal reflection Series and parallel circuits Circuit calculations Potential dividers | <ul style="list-style-type: none"> Specialised cells Pulmonary system Arteries and veins Cardiovascular and respiratory disease Intermolecular forces Acid-base titrations Physical and chemical properties of period 2 and 3 Diffraction and superposition Industrial application of diffraction gratings | <ul style="list-style-type: none"> Coasts as natural systems Systems and processes Coastal landscape development Water and carbon cycle Nature and the importance of places | <ul style="list-style-type: none"> Churchill's view of event 1929-1934 Churchill as a wartime Prime Minister Churchill and international diplomacy 1939-1951 Conservative domination 1951-1964 |
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| Art | Photography | PE | ICT | RE | French | Personal Development | Music | CNAT Health & Social Care (Single) | CNAT Health & Social Care (Double) |
| <ul style="list-style-type: none"> A sense of place Portraiture Landscape Drawing Analysis of context Proportion Observation Colour theory Composition Mixed media Photoshop Typography Graphic design | <ul style="list-style-type: none"> Induction project Portrait Landscapes Analysis of context Photoshoots Editing digitally and by hand Colour theory Photoshop Typography Graphic design | <ul style="list-style-type: none"> Synovial joints Muscle functions Muscular contractions Structure of muscle fibres Types of different events Roles in different events Responsibilities of roles Applying skills, technique and tactics to individual and team sport | <ul style="list-style-type: none"> Understanding computer software Understanding business IT systems Types of servers Virtualisation Networking characteristics | <ul style="list-style-type: none"> Natural Law Telos 4 Tiers of Law The precepts Does natural law provide helpful methods to model decision making Knowledge of Gods existence Innate human sense of the divine Can God be known through reason | <ul style="list-style-type: none"> Awareness of universities and the <i>grandes écoles</i> in France Preparing for work and work experience Balancing work commitments and social life The history of strikes in France Discrimination in the work place Film synopsis and character portrayal Film comparison | <ul style="list-style-type: none"> Honour based violence Feminism Date rape | <ul style="list-style-type: none"> The set musical works of Hayden, Beethoven and Mozart Classical instrumental music Concert overture Symphonic poem Programme symphony Soloworks | <ul style="list-style-type: none"> Understanding the concepts of equality, diversity and rights and how these are applied in context The impact of discriminatory practices on individuals in health, social care and child care environments Current legislations and national incentives | As single but also includes: <ul style="list-style-type: none"> Understanding infection control Explaining how risks associated with poor infection control are different for health and social care Understanding the role of a health and social care worker in controlling infection |
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