



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

Head of year: Mrs B Irving (b.irding@netherhall.cumbria.sch.uk)

(C) Core subject (O) Option subject

Y11

English Language (C) <ul style="list-style-type: none"> Identifying and interpreting explicit and implicit information from texts Selecting and synthesising evidence from different texts Analysing how writers use language and structure 	English Literature (C) <ul style="list-style-type: none"> The importance of a writers' message Significance of Shakespeare and literary heritage Analysing a writers craft: language, structure and dramatic techniques 	Maths (C) <ul style="list-style-type: none"> Prime factor decomposition Square roots using prime factors Integer powers Constructing regular polygons Multi-step angle calculations Pythagoras and trigonometry Standard form Circle theorems 	Biology (C) <ul style="list-style-type: none"> Land use Deforestation Global warming Trophic levels Food security Farming techniques Fisheries Biotechnology The nervous system The brain and eye Homeostasis 	Chemistry (C) <ul style="list-style-type: none"> Crude oil Hydrocarbons Alkanes Fractional distillation Alkenes Cracking Reactions of alkanes Alcohols Carboxylic acids Esterification Addition polymerisation 	Physics (C) <ul style="list-style-type: none"> Transverse and longitudinal waves Reflection of waves Sound waves Waves for detection and exploration Electromagnetic waves Lenses and visible light 	Geography (O) <ul style="list-style-type: none"> Rivers fieldwork Coasts Weather and climate Settlement fieldwork Energy resources Composition of the UKs energy mix Global variations in energy mix How a biosphere provides resources 	History (O) <ul style="list-style-type: none"> Robert Koch Britain's towns in the early 1880s Cholera and Public Health The Great Stink The 1875 Public Health Act Development of penicillin Pharmaceutical industry Antibiotic resistance Impact of war 	French (O) <ul style="list-style-type: none"> Describing projects Talking about what you normally do on holiday Talking about an ideal holiday Booking and reviewing hotels Ordering in a restaurant Talking about travelling 	RE (O) <ul style="list-style-type: none"> Human rights and social justice – Christians Human rights and social justice – Muslims Individuals, charities and organisations that campaign for human rights Censorship and religious expression and extremism 	GCSE PE (O) <ul style="list-style-type: none"> Structure of the heart and the cardiac cycle Blood vessels Cardiac output Mechanics of breathing Spirometry Aerobic and anaerobic exercise Short and long term effects of exercise 	CNAT PE (O) <ul style="list-style-type: none"> The growth of new sports in the UK Olympics Paralympics Campaigns and events that promote sporting values The importance of etiquette and sporting behaviour of performers and spectators
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Art (O)	Photography (O)	Graphics (O)	Food (O)	CNAT Engineering (O)	Computer Science (O)	WJEC ICT (O)	Business Studies (O)	CNAT Child Care (O)	CNAT Health & Social Care (O)	Music (O)	Personal Development (C)
<ul style="list-style-type: none"> Architecture Combining distorted self and architecture Drawing Analysis if context Proportion Observation Colour theory Composition Mixed media Photoshop Typography Graphic design 	<ul style="list-style-type: none"> Architecture Analysis if context Proportion Observation Colour theory Composition Mixed media Photoshop Typography Graphic design 	<ul style="list-style-type: none"> Mock exam project Analysis of brief Contextual links Poster layout Photoshop Design for advertising Colour theory 	<ul style="list-style-type: none"> Non examined assessment - Food investigation task Investigating rising agents Making bread 	<ul style="list-style-type: none"> Use of CAD to produce a model of design proposal for a wireless charger Product analysis identifying strengths and weaknesses of existing products Product disassembly to understand the potential hazards of a product 	<ul style="list-style-type: none"> Principles of computational thinking Abstraction Decomposition Algorithmic thinking Inputs, processes and outputs for a problem Structure diagrams Pseudocode Flowcharts Trace tables 	<ul style="list-style-type: none"> Creating and modifying a database Creating link tables Importing data from a CSV file Checking and testing data Enhancing layouts and formats of spreadsheets 	<ul style="list-style-type: none"> Understanding the main methods for paying a salary, wage, commission and profit sharing Benefits of a motivated workforce Non-financial methods of motivation 	<ul style="list-style-type: none"> Developmental needs of the child From birth to 5 years Knowing how the developmental needs of the child are met 	<ul style="list-style-type: none"> Types of care settings The rights of service users The benefits to service users health and wellbeing Person centred values and how they are applied by service providers Benefits of applying person centred values 	<ul style="list-style-type: none"> Ensemble performance Concerto through time 	<ul style="list-style-type: none"> Perseverance and procrastination The importance of sleep Risk-taking and decision making Gambling and online gambling Digital footprints Personal safety and the wider world How to revise
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