



# Half Term 1 Subject Overviews: What your child has been learning this half term

Head of year: Mr C Pattinson ([c.pattinson@netherhall.cumbria.sch.uk](mailto:c.pattinson@netherhall.cumbria.sch.uk))

# Y13

English Language	English Literature	Maths (Pure)	Maths (Applied)	Biology	Chemistry	Physics	Applied Science	Geography	History
<ul style="list-style-type: none"> <li>• Methods of language analysis</li> <li>• Coherent written expression</li> <li>• Concepts and issues relevant to language use</li> <li>• Analysing and evaluating how contextual factors and language features are associated with the construction of meaning</li> <li>• Exploring connections across texts</li> </ul>	<ul style="list-style-type: none"> <li>• Othello</li> <li>• NEA coursework component</li> <li>• How playwrights use dramatic forms to shape meaning in drama texts and evoke audience responses</li> <li>• Making connections between a range of literary texts and exploring relationships between texts</li> </ul>	<ul style="list-style-type: none"> <li>• Definition of a function</li> <li>• Domain and range of functions</li> <li>• The modulus function and their graphs</li> <li>• Transformations</li> <li>• Inverse functions and their graphs</li> <li>• Solving modulus problems</li> <li>• Binomial series</li> <li>• Expansion of rational functions</li> </ul>	<ul style="list-style-type: none"> <li>• Understand exponential models in bivariate data</li> <li>• Changing variables in a regression line to estimate coefficients</li> <li>• Correlation coefficients</li> <li>• Set notation for probability</li> <li>• Conditional probability</li> <li>• Two way tables and Venn diagrams</li> </ul>	<ul style="list-style-type: none"> <li>• Phagocytes</li> <li>• Lymphocytes</li> <li>• Pathogens</li> <li>• Opsonins and agglutinins</li> <li>• Active and passive immunity</li> <li>• Biological classification</li> <li>• Classification and phylogeny</li> <li>• Types of variation</li> <li>• Statistical analysis</li> <li>• Factors affecting population size</li> </ul>	<ul style="list-style-type: none"> <li>• Rates of reaction</li> <li>• Rate order</li> <li>• Rate equations</li> <li>• Deducing orders from rate graphs</li> <li>• IUPAC rules for naming</li> <li>• Electrophilic substitution in arenes, phenol and aromatic compounds</li> <li>• Nucleophilic addition</li> <li>• Acidity of phenols</li> <li>• Detecting carbonyls</li> <li>• Detecting aldehydes</li> </ul>	<ul style="list-style-type: none"> <li>• Momentum</li> <li>• Electric fields</li> <li>• Oil drop experiment</li> <li>• Radial electric fields</li> <li>• Coulomb's Law</li> <li>• Capacitor basics</li> <li>• Internal energy</li> <li>• Heat transfer</li> <li>• Ideal gases</li> <li>• Kinetic theory</li> <li>• Nuclear physics</li> <li>• Particle accelerators</li> <li>• Particle detectors</li> <li>• Large Hadron Collider</li> </ul>	<ul style="list-style-type: none"> <li>• Unit 2</li> <li>• Completion and improvement of aspects 2A-2D</li> <li>• Astrophysics</li> <li>• Unit 3</li> <li>• Variable</li> <li>• Graphical representations</li> <li>• Validity in science</li> <li>• Peer reviews</li> <li>• Practical biology</li> </ul>	<ul style="list-style-type: none"> <li>• Ecosystems in the British Isles over time</li> <li>• Marine ecosystems</li> <li>• Local ecosystems</li> <li>• Case studies</li> <li>• The global commons</li> <li>• Antarctica as a global common</li> <li>• Globalisation critique</li> <li>• Fieldwork</li> </ul>	<ul style="list-style-type: none"> <li>• The main causes of the rebellion</li> <li>• Political factions</li> <li>• Succession</li> <li>• Religion</li> <li>• Taxation</li> <li>• Famine</li> <li>• Inflation</li> <li>• Enclosures</li> <li>• Social issues</li> <li>• Mono and multi causal rebellions</li> <li>• Causes of rebellion as reflected in the demands of the rebels</li> </ul>
Mr Bird <a href="mailto:d.bird@netherhall.cumbria.sch.uk">d.bird@netherhall.cumbria.sch.uk</a>		Miss Wright <a href="mailto:a.wright@netherhall.cumbria.sch.uk">a.wright@netherhall.cumbria.sch.uk</a>		Mrs Poddington <a href="mailto:c.poddington@netherhall.cumbria.sch.uk">c.poddington@netherhall.cumbria.sch.uk</a>				Mrs Bradley <a href="mailto:r.bradley@netherhall.cumbria.sch.uk">r.bradley@netherhall.cumbria.sch.uk</a>	Mr Rainsley <a href="mailto:m.rainsley@netherhall.cumbria.sch.uk">m.rainsley@netherhall.cumbria.sch.uk</a>
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"> <li>• Student led project</li> <li>• Personal portfolio</li> <li>• Drawing</li> <li>• Analysis of context</li> <li>• Proportion</li> <li>• Observation</li> <li>• Colour theory</li> <li>• Composition</li> <li>• Mixed media</li> <li>• Use of photoshop</li> <li>• Typography</li> <li>• Graphic design</li> </ul>	<ul style="list-style-type: none"> <li>• Student led project</li> <li>• Personal portfolio</li> <li>• Analysis of context</li> <li>• Proportion</li> <li>• Observation</li> <li>• Colour theory</li> <li>• Composition</li> <li>• Mixed media</li> <li>• Use of photoshop</li> <li>• Typography</li> <li>• Graphic design</li> </ul>	<ul style="list-style-type: none"> <li>• UK sport organisations</li> <li>• Departments for sport</li> <li>• Funding processes</li> <li>• Professional associations</li> <li>• Roles of coaches</li> <li>• Roles of leaders</li> <li>• How roles impact a sport</li> <li>• Principles of leadership</li> <li>• Applying skills and tactics to individual and team sport</li> </ul>	<ul style="list-style-type: none"> <li>• Project life cycle</li> <li>• Initiating and planning projects</li> <li>• The internet of everything</li> <li>• Where the IOE is used</li> <li>• Applications of the use of the IOE</li> <li>• Global impacts</li> <li>• The 4 pillars of the IOE</li> </ul>	<ul style="list-style-type: none"> <li>• Nature &amp; influence of religious experience</li> <li>• Views and main conclusions of William James</li> <li>• Different ways in which individual religious experiences can be understood</li> <li>• The Bible as the only authority for Christian practices</li> <li>• Bible, Church and reason as sources of Christian ethical practices</li> </ul>	<ul style="list-style-type: none"> <li>• The experience of immigrants in France</li> <li>• Immigrant entrepreneurs and workers within the economy</li> <li>• The contribution of immigrants to arts and culture</li> <li>• Immigrants and local people share their experiences, positive and negative</li> </ul>	<ul style="list-style-type: none"> <li>• Motivation and work ethic</li> <li>• Initiative</li> <li>• Problem solving</li> <li>• Leadership skills</li> <li>• Personal branding</li> <li>• How to revise</li> </ul>	<ul style="list-style-type: none"> <li>• Performance preparatory work</li> <li>• Composition</li> <li>• Researching the board set brief</li> <li>• Development of understanding of Haydn, Mozart and Beethoven</li> <li>• Introduction to Jazz</li> </ul>	<ul style="list-style-type: none"> <li>• The relationships in health, social care or childcare environments</li> <li>• The factors that influence the building of relationships</li> <li>• How a person centred approach builds positive relationships</li> <li>• Using communication skills to build positive relationships</li> <li>• Nutrition and diet guidelines</li> </ul>	<ul style="list-style-type: none"> <li>• Promoting positive behaviour</li> <li>• Reactive and restrictive interventions</li> <li>• Infection control</li> <li>• Chain of infection</li> <li>• Controlling the spread of infection</li> <li>• Types causes and effects of mental health conditions</li> <li>• Supporting mental health conditions</li> </ul>
Miss Cotton <a href="mailto:h.cotton@netherhall.cumbria.sch.uk">h.cotton@netherhall.cumbria.sch.uk</a>		Mr Smith <a href="mailto:w.smith@netherhall.cumbria.sch.uk">w.smith@netherhall.cumbria.sch.uk</a>	Ms Cooper <a href="mailto:s.cooper@netherhall.cumbria.sch.uk">s.cooper@netherhall.cumbria.sch.uk</a>	Miss Barcock <a href="mailto:l.barcock@netherhall.cumbria.sch.uk">l.barcock@netherhall.cumbria.sch.uk</a>	Mr Machard <a href="mailto:m.machard@netherhall.cumbria.sch.uk">m.machard@netherhall.cumbria.sch.uk</a>	Miss Holliday <a href="mailto:c.holliday@netherhall.cumbria.sch.uk">c.holliday@netherhall.cumbria.sch.uk</a>	Mr Newton <a href="mailto:d.newton@netherhall.cumbria.sch.uk">d.newton@netherhall.cumbria.sch.uk</a>	Mrs Fisher <a href="mailto:s.fisher@netherhall.cumbria.sch.uk">s.fisher@netherhall.cumbria.sch.uk</a>	