



# Half Term 5 Subject Overviews: What your child will be learning this half term

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

# Y12

English Language	English Literature	Maths	EPQ	Biology	Chemistry	Physics	Applied Science	Geography	History
<ul style="list-style-type: none"> <li>Original writing and commentary</li> <li>The power of persuasion</li> <li>The power of information</li> <li>The power of story telling</li> </ul>	<ul style="list-style-type: none"> <li>Frankenstein</li> <li>A Handmaids Tale</li> <li>Understand how genre features and conventions operate in prose fiction texts</li> <li>Understand ways to read texts</li> <li>Making connections and relationships between texts</li> </ul>	<p>Pure</p> <ul style="list-style-type: none"> <li>Differentiation</li> <li>Exponentials and logarithms</li> </ul> <p>Applied</p> <ul style="list-style-type: none"> <li>Statistical distributions</li> <li>Hypothesis testing</li> </ul>	<ul style="list-style-type: none"> <li>Production logs</li> <li>Interviews with mentor</li> <li>Gantt charts</li> <li>Reviewing aspects of presentation skills</li> </ul>	<ul style="list-style-type: none"> <li>Forming tissue fluid</li> <li>Structure of the heart</li> <li>Cardiac cycle</li> <li>ECC</li> <li>Haemoglobin</li> <li>Biodiversity</li> <li>Sampling techniques</li> <li>Species Richness</li> <li>Genetic biodiversity</li> <li>In-situ and ex-situ methods</li> </ul>	<ul style="list-style-type: none"> <li>Boltzmann distribution</li> <li>Dynamic equilibrium</li> <li>Catalysts</li> <li>Haloalkanes</li> <li>Le Chatelier</li> <li>Nucleophilic substitution</li> <li>Fragmentation peaks</li> <li>Identifying functional groups</li> <li>IR radiation and covalent bonds</li> <li>Absorption of IR radiation</li> </ul>	<ul style="list-style-type: none"> <li>Wave phase and superposition</li> <li>Stationary waves</li> <li>Diffraction of laser light</li> <li>Wave interference</li> <li>Optics</li> <li>Lenses and ray diagrams</li> <li>EMF and internal resistance</li> <li>Fluids density and up-thrust</li> <li>Fluid movement</li> </ul>	<ul style="list-style-type: none"> <li>Preparation for Unit 1 external assessment in biology, chemistry and physics</li> <li>Unit 2C coursework preparation: chromatography</li> </ul>	<ul style="list-style-type: none"> <li>Ecosystems and sustainability</li> <li>Ecosystems and processes</li> <li>Biomes</li> <li>Globalisation</li> <li>Global systems</li> <li>International trade and access to markets</li> <li>Global governance</li> </ul>	<ul style="list-style-type: none"> <li>Britain's position in the world 1951-1997</li> <li>Relations with and policies towards the USA and USSR</li> <li>Britain's influence at the UN</li> <li>Role on Europe</li> <li>Nuclear policy</li> <li>Response to crises: Korean war, Suez, Falklands and the first Gulf War</li> <li>Decolonisation and the Commonwealth</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)
<p>Personal portfolio</p> <ul style="list-style-type: none"> <li>Portraiture</li> <li>Landscape</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>Photoshop</li> <li>Typography</li> <li>Graphic design</li> </ul>	<p>Personal portfolio</p> <ul style="list-style-type: none"> <li>Portrait</li> <li>Landscapes</li> <li>Analysis of context</li> <li>Photoshoots</li> <li>Editing digitally and by hand</li> <li>Colour theory</li> <li>Photoshop</li> <li>Typography</li> <li>Graphic design</li> </ul>	<ul style="list-style-type: none"> <li>ATP-PC System</li> <li>Lactic acid system</li> <li>Aerobic system</li> <li>Reactions</li> <li>Energy continuum</li> <li>Recovery processes</li> <li>Timescales</li> <li>Applying skill, techniques and tactics to a team sport</li> </ul>	<p>Virtual and augmented reality</p> <ul style="list-style-type: none"> <li>Understand how virtual and augmented reality may be used</li> <li>Design virtual and augmented reality</li> <li>Create a virtual or augmented reality resource</li> <li>Predict future applications for virtual and augmented reality</li> </ul>	<ul style="list-style-type: none"> <li>Soul, body and mind</li> <li>The arguments based on observation, the theological and cosmological arguments for the existence of God</li> <li>Death and the afterlife</li> </ul>	<ul style="list-style-type: none"> <li>Everyday customs and traditions in France</li> <li>Customs in francophone countries</li> <li>Practice translation, reading and listening, essay writing skills and summarising skills</li> <li>Individual research project</li> </ul>	<ul style="list-style-type: none"> <li>Careers in the core subjects: maths, English and science</li> <li>Writing personal statements</li> <li>Plagiarism</li> </ul>	<ul style="list-style-type: none"> <li>The set musical works of Beethoven</li> <li>Introduction to Ella Fitzgerald and the Cole Porter Songbook</li> <li>Performance and composition preparatory work</li> </ul>	<ul style="list-style-type: none"> <li>Review of:               <ul style="list-style-type: none"> <li>Unit 2</li> <li>Unit 3</li> <li>Unit 4</li> <li>Unit 16</li> </ul> </li> </ul>	<p>As single but also includes:</p> <ul style="list-style-type: none"> <li>Knowing types and causes of learning disabilities</li> <li>Difficulties individuals face</li> <li>Understanding personalisation in health and social care</li> <li>Understanding what is meant by a person-centred approach to care</li> <li>Understanding methods used to implement a person-centred approach</li> </ul>
Miss Norman <a href="mailto:k.norman@netherhall.cumbria.sch.uk">k.norman@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>	