


## Year 11: November Trial Exam Paper Focus

Subjects	Paper	Mock exam topics
English Language	2	Writers Viewpoints and Perspectives Two non-fiction texts (19 <sup>th</sup> Century and modern) with 4 follow up questions One non-fiction writing task
English Literature	1	A Christmas Carol (extract question) Macbeth (extract question)
Maths (F)	1	<b>Number:</b> Four operations / Negative numbers / Estimation / Arithmetic of fractions / Fraction of amounts / Laws of indices / Standard Form / <b>Algebra:</b> Solving linear equations / plotting linear graphs using a table of values / interpret graphs / intersection of lines / nth term of a sequence / using formula <b>Ratio:</b> Percentage of amounts / fractions less than 1 / simplifying fractions and ratios / cost problems / density <b>Geometry and measure:</b> Naming parts of a circle / types of triangles / translation / angles in triangles / sectors of circles <b>Statistics:</b> Two way tables / average problems / probability / venn diagrams
Maths (H)	1	<b>Number:</b> Decimals / Fraction of amounts / Value as a fraction of another / Percentage as an operator / Laws of indices / Standard Form / Simplifying surds

		<p><b>Algebra:</b> Solving linear equations / Equations of a straight line / Identities / Simplifying algebraic fractions / factorising quadratics / changing the subject / sketching functions / speed time graphs / identity regions / algebraic sequences</p> <p><b>Ratio:</b> Simplest form / proportion problem.</p> <p><b>Geometry and measure:</b> Congruence / prisms / Exact trigonometric values / sector of a circle / vector geometry / regions</p> <p><b>Statistics:</b> Cumulative frequencies / Probability / Venn diagrams / tree diagrams / expected values / independent events</p>
<p>Combined/ Triple Science</p> 	1	<p><b>Biology – year 10 content.</b></p> <p>B1 – Cells</p> <p>B2 – Organ systems</p> <p>B3 – Disease</p> <p>B4 - Plants</p>
	1	<p><b>Chemistry – year 10 content</b></p> <p>C1 – Atomic structure and periodic table</p> <p>C2 – Bonding</p> <p>C3 – Quantitative Chem</p> <p>C4 – Chemical and Energy changes</p>
	1	<p><b>Physics – year 10 content</b></p> <p>P1 – Particle model of matter</p> <p>P2 – Energy</p> <p>P3 – Electricity</p> <p>P4 - Radioactivity</p>
History		<p><b>Medicine in Britain c1250 -present day</b></p> <ul style="list-style-type: none"> <li>• Dressing stations in the evacuation route (medicine in the trenches of WW1)</li> </ul>

		<ul style="list-style-type: none"> <li>• Blood transfusions in the trenches of WW1 (including the developments made)</li> <li>• Care (provided by monks/nuns) and treatment (provided by doctors, family members and apothecaries) in the Middle Ages (including how doctors were trained and with what knowledge)</li> <li>• The printing press and how it impacted medical knowledge (the works of Vesalius, Harvey and Sydenham) but also what stayed the same despite the printing press</li> <li>• Surgery in the Industrial period (developments and progress)</li> <li>• Surgery in the modern period (developments and progress)</li> <li>• Changes in preventions from 1700 to 1900 (Industrial period), including Jenner's smallpox vaccine</li> </ul>
		<p><b>Elizabethan England</b></p> <p>Early Elizabethan England:</p> <ul style="list-style-type: none"> <li>• The Babington Plot</li> <li>• Problems / challenges Elizabeth had / faced when she became queen in 1558</li> <li>• Causes of the Anglo-Spanish War of 1585-88</li> <li>• Leisure activities of the rich and poor and how far they were similar/different</li> </ul>
Geography x2	1	<b>Global Geographical Issues</b>

		<p>A - Hazardous Earth:</p> <ul style="list-style-type: none"> <li>• Causes of climate change</li> <li>• Distribution of tropical cyclones</li> <li>• Earthquakes (including case studies of a named developed / developing country)</li> </ul> <p>B – Development Dynamics</p> <ul style="list-style-type: none"> <li>• Development Indicators</li> <li>• Development Theory (Rostow, Frank)</li> <li>• India depth study (including strategies for and impacts of economic growth)</li> </ul> <p>C – Challenges of an Urbanising World</p> <ul style="list-style-type: none"> <li>• Urbanisation / counter-urbanisation</li> <li>• Land use models (Burgess, Hoyt)</li> <li>• Top down / bottom-up development</li> <li>• Mumbai depth study (including challenges of life in a megacity)</li> <li>•</li> </ul> <p>Plus a range of geographical / numerical skills.</p>
	2	<p><b>UK Geographical Issues</b></p> <p>A – UK's Evolving Physical Landscape</p> <ul style="list-style-type: none"> <li>• Geology of UK</li> <li>• Coastal erosion</li> <li>• River flooding</li> <li>• Links between UK physical geography and human settlement</li> </ul>

		<p>B – The UK Evolving Human Landscape</p> <ul style="list-style-type: none"> <li>• Role of TNCs on the economy</li> <li>• Impacts of migration to the UK</li> <li>• Causes of decline in UK cities</li> <li>• Distribution of industry across the UK</li> </ul> <p>C – Fieldwork – Dynamic Urban Environment</p> <ul style="list-style-type: none"> <li>• Methods of measuring the quality of life in an urban area.</li> <li>• Strategies for assessing the reliability of conclusions</li> </ul>
Health and Social Care	1	<p><u>Component 3: Health and Wellbeing</u></p> <p>Learning Aim A: Factors that affect health and development.</p> <p>Including</p> <ul style="list-style-type: none"> <li>• Physical and lifestyle factors</li> <li>• Social, cultural and emotional factors</li> <li>• Environmental factors</li> <li>• Economic factors</li> </ul> <p>Learning Aim B: Physiological indicators including:</p> <ul style="list-style-type: none"> <li>• Peak flow</li> <li>• BMI</li> <li>• Blood pressure</li> <li>• Pulse rate</li> </ul> <p>Learning Aim C:</p> <ul style="list-style-type: none"> <li>• Person centred approaches to care</li> <li>• Setting short- and long-term targets to improve health and wellbeing</li> </ul>

		<ul style="list-style-type: none"> <li>• Obstacles to achieving targets, and ways to overcome these obstacles</li> </ul>
PE	1	<p>Paper 1 – Physical Factors affecting performance</p> <p><b>Anatomy &amp; Physiology</b></p> <ul style="list-style-type: none"> <li>• Structure and function of the skeletal system</li> <li>• Structure and function of the muscular system</li> <li>• Movement analysis</li> <li>• Cardiovascular and respiratory system</li> <li>• Effects of exercise on the body</li> </ul> <p><b>Physical training</b></p> <ul style="list-style-type: none"> <li>• Components of fitness</li> <li>• Applying the principles of training</li> <li>• Preventing injury in physical activity and training</li> </ul>
	2	<p>Paper 2 – Socio-cultural issues and Sports Psychology</p> <p><b>Socio-cultural issues</b></p> <ul style="list-style-type: none"> <li>• Engagement patterns of different social groups in physical activities and sports</li> <li>• Commercialisation of physical activity and sport</li> <li>• Ethical and socio-cultural issues in physical activity and sport</li> </ul> <p><b>Sports Psychology</b></p> <ul style="list-style-type: none"> <li>• Characteristics of skilful movement and classification of skills</li> <li>• Goal setting</li> </ul>

		<ul style="list-style-type: none"> <li>• Mental preparation</li> <li>• Types of guidance and feedback</li> </ul> <b>Health, fitness and well-being</b> <ul style="list-style-type: none"> <li>• Health, fitness and well-being</li> <li>• Diet and nutrition</li> </ul>
Food	1	Food Safety <ul style="list-style-type: none"> <li>• Storing, preparing &amp; cooking food</li> </ul> Nutrition <ul style="list-style-type: none"> <li>• Protein</li> <li>• Fat</li> <li>• Mineral deficiencies</li> <li>• Healthy eating guidelines</li> <li>• Diet related diseases</li> </ul> Food Science <ul style="list-style-type: none"> <li>• Chemical &amp; functional properties of key ingredients</li> </ul> Food Provenance <ul style="list-style-type: none"> <li>• Sustainability</li> <li>• Methods of farming</li> <li>• Primary processing of ingredients</li> </ul> Food Choice
French (F/H)		Writing - family, leisure (sport and technology), festivals, holidays, school
Hair and beauty		<ul style="list-style-type: none"> <li>• Types of businesses</li> <li>• Ph testing</li> <li>• Effects of strong alkali on the hair</li> <li>• Shampoo molecule</li> <li>• Skin's acid mantle</li> <li>• Ingredients</li> <li>• Structure of the skin</li> <li>• Pathogens</li> <li>• Non-contagious disorders</li> </ul>

		<ul style="list-style-type: none"> <li>• Use of advertising</li> <li>• Design factors</li> </ul>
DT	1	<ul style="list-style-type: none"> <li>• Polymers-Injection moulding</li> <li>• Timbers-Steam bending</li> <li>• Smart &amp; modern materials</li> <li>• Mechanisms-Levers</li> <li>• CAD/CAM-Laser cutting</li> <li>• Environmental issues in design</li> <li>• Furniture design- Flat pack furniture and fixings</li> <li>• Drawing techniques- Exploded diagrams</li> </ul>
Computer science	1	<ul style="list-style-type: none"> <li>• 1.1 Systems Architecture (Purpose of the CPU, Fetch, Decode Execute Cycle, Registers - Program Counter, Memory Address Register, Memory Data Register and Accumulator)</li> <li>• 1.2 Memory and Storage (RAM, ROM, Hard Drive, Solid State Drive, Optical, Binary to Denary and Vice Versa, Hex, Sound)</li> <li>• 1.3 Networking (LAN and WAN's, Network Devices)</li> <li>• 2.1 Algorithms (Pseudocode and Flowcharts)</li> <li>• 2.2 Programming Fundamentals (Sequencing, Selection and Iteration)</li> <li>• 2.4 Logic Gates (AND, OR, NOT, Truth Tables, Drawing Logic Circuits)</li> </ul>
RE		<p><b>Component 3: Buddhism</b></p> <p>Full paper. Beliefs Teachings and Practices</p>