

Y10 Curriculum Overview 2019-21

Subject	Exam Board
English Literature	AQA
<p>Description:</p> <p>The specification takes a skills-based approach to the study of English literature that is consistent across the genres. It offers excellent preparation for AS and A-level English Literature, as well as giving students a grounding in a wide variety of literature that will stay with them for life.</p> <p>Students will read the following texts:</p> <p>Shakespeare and the 19th-century novel:</p> <ul style="list-style-type: none">• Macbeth• A Christmas Carol <p>Modern texts and poetry:</p> <ul style="list-style-type: none">• An Inspector Calls• Poetry anthology• Unseen poetry <p>In studying the set texts students should have the opportunity to develop the following skills:</p> <ul style="list-style-type: none">• Reading comprehension and reading critically• Writing	
<p>Method of Assessment:</p> <p>Paper 1: Shakespeare and the 19th-century novel Written examination (1 hour 45 minutes - 64 marks)</p> <p>Section A Shakespeare: students will answer one question on their play of choice. They will be required to write in detail about an extract from the play and then to write about the play as a whole.</p> <p>Section B The 19th-century novel: students will answer one question on their novel of choice. They will be required to write in detail about an extract from the novel and then to write about the novel as a whole.</p> <p>Paper 2: Modern texts and poetry Written examination (2 hours 15 minutes - 96 marks)</p> <p>Section A Modern texts: students will answer one essay question from a choice of two on their studied modern prose or drama text.</p> <p>Section B Poetry: students will answer one comparative question on one named poem printed on the paper and one other poem from their chosen anthology cluster.</p> <p>Section C Unseen poetry: Students will answer one question on one unseen poem and one question comparing this poem with a second unseen poem.</p>	
<p>Link to Specification: http://www.aqa.org.uk/subjects/english/gcse/english-literature-8702/specification-at-a-glance</p>	

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Subject	Exam Board
ENGLISH LANGUAGE	AQA
<p>Description: The specification will enable students of all abilities to develop the skills they need to read, understand and analyse a wide range of different texts covering the 19th, 20th and 21st century time periods as well as to write clearly, coherently and accurately using a range of vocabulary and sentence structures.</p> <p>Subject content</p> <ul style="list-style-type: none">• Explorations in creative reading and writing• Writers' viewpoints and perspectives• Non-exam assessment	
<p>Method of Assessment:</p> <p>Paper 1: Explorations in Creative Reading and Writing Written examination (1 hour 45 mins - 80 marks) Section A: Reading - one literature fiction text Section B: Writing - descriptive or narrative writing</p> <p>Paper 2: Writers' Viewpoints and Perspectives Written examination (1 hour 45 mins - 80 marks) Section A: Reading - one non-fiction text and one literary non-fiction text Section B: Writing - writing to present a viewpoint</p> <p>Non-examination Assessment: Spoken Language Presenting, responding to questions and feedback, use of Standard English</p>	
<p>Link to Specification: http://www.aqa.org.uk/subjects/english/gcse/english-language-8700/specification-at-a-glance</p>	

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Subject	Exam Board
Mathematics	AQA
<p>Description: Maths is for everyone. It is diverse, engaging and essential in equipping students with the right skills to reach their future destination, whatever that may be.</p> <p>Subject content</p> <ul style="list-style-type: none">1 Number2 Algebra3 Ratio, proportion and rates of change4 Geometry and measures5 Probability6 Statistics	
<p>Method of Assessment: GCSE Mathematics has a Foundation tier (grades 1 – 5) and a Higher tier (grades 4 – 9). Students must take three question papers at the same tier. All question papers must be taken in the same series.</p> <p>Paper 1: non-calculator Written examination (1 hour 30 minutes - 80 marks) A mix of question styles, from short, single-mark questions to multi-step problems. The mathematical demand increases as a student progresses through the paper.</p> <p>Paper 2: calculator Written examination (1 hour 30 minutes - 80 marks) A mix of question styles, from short, single-mark questions to multi-step problems. The mathematical demand increases as a student progresses through the paper.</p> <p>Paper 3: calculator Written examination (1 hour 30 minutes - 80 marks) A mix of question styles, from short, single-mark questions to multi-step problems. The mathematical demand increases as a student progresses through the paper.</p>	
<p>Link to Specification: http://www.aqa.org.uk/subjects/mathematics/gcse/mathematics-8300/specification-at-a-glance</p>	

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Subject	Exam Board
Biology, Chemistry, Physics	
AQA	
<p>Description: Science has something to offer everyone and students study individual sciences. These qualifications are linear. Linear means that students will sit all their exams at the end of the course.</p> <p>Biology: Subject content</p> <ol style="list-style-type: none">1. Cell biology2. Organisation3. Infection and response4. Bioenergetics5. Homeostasis and response6. Inheritance, variation and evolution7. Ecology8. Key ideas <p>Chemistry: Subject content</p> <ol style="list-style-type: none">1. Atomic structure and the periodic table2. Bonding, structure, and the properties of matter3. Quantitative chemistry4. Chemical changes5. Energy changes6. The rate and extent of chemical change7. Organic chemistry8. Chemical analysis9. Chemistry of the atmosphere10. Using resources <p>Physics: Subject content</p> <ol style="list-style-type: none">1. Energy2. Electricity3. Particle model of matter4. Atomic structure5. Forces6. Waves7. Magnetism and electromagnetism8. Space physics	
<p>Method of Assessment:</p> <p>Biology: Paper 1 Topics 1–4: Cell biology; Organisation; Infection and response; and Bioenergetics. Written examination (1 hour 45 minutes – 100 marks) Multiple choice, structured, closed short answer and open response.</p> <p>Paper 2</p>	

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Topics 5–7: Homeostasis and response; Inheritance, variation and evolution; and Ecology.

Written examination (1 hour 45 minutes – 100 marks)

Multiple choice, structured, closed short answer and open response.

Chemistry:

Paper 1

Topics 1–5: Atomic structure and the periodic table; Bonding, structure, and the properties of matter; Quantitative chemistry, Chemical changes; and Energy changes.

Written examination (1 hour 45 minutes – 100 marks)

Multiple choice, structured, closed short answer and open response.

Paper 2

Topics 6–10: The rate and extent of chemical change; Organic chemistry; Chemical analysis, Chemistry of the atmosphere; and Using resources.

Written examination (1 hour 45 minutes – 100 marks)

Multiple choice, structured, closed short answer and open response.

Physics:

Paper 1

Topics 1–5: Atomic structure and the periodic table; Bonding, structure, and the properties of matter; Quantitative chemistry, Chemical changes; and Energy changes.

Written examination (1 hour 45 minutes – 100 marks)

Multiple choice, structured, closed short answer and open response.

Paper 2

Topics 6–10: The rate and extent of chemical change; Organic chemistry; Chemical analysis, Chemistry of the atmosphere; and Using resources.

Written examination (1 hour 45 minutes – 100 marks)

Multiple choice, structured, closed short answer and open response.

Link to Specification:

<http://www.aqa.org.uk/subjects/science/gcse/biology-8461/specification-at-a-glance>

<http://www.aqa.org.uk/subjects/science/gcse/chemistry-8462/specification-at-a-glance>

<http://www.aqa.org.uk/subjects/science/gcse/physics-8463/specification-at-a-glance>

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Subject	Exam Board
Computer Science (Option)	OCR
<p>Description: Computer Science is a very practical subject – students will be able to use the knowledge and skills they learn in the classroom on real-world problems. It’s also a highly creative subject that calls on learners to be inventive. To help us develop this engaging, modern qualification, we talked to companies like Microsoft, Google and Cisco; organisations like Computing At School (CAS) and also teachers and academics.</p> <p>Component 1 – COMPUTER SYSTEMS Component 2 - COMPUTATIONAL THINKING, ALGORITHMS AND PROGRAMMING COMPONENT 3 - A PROGRAMMING PROJECT</p>	
<p>Method of Assessment:</p> <p>Component 1 Computer Systems Written examination (1 hour 30 minutes – 80 marks)</p> <p>Component 2 Computational thinking, algorithms and programming Written examination (1 hour 30 minutes – 80 marks)</p> <p>Component 3 Programming project Non-examined, externally moderated (20 hours - 40 marks)</p>	
<p>Link to Specification: https://www.ocr.org.uk/qualifications/gcse/computer-science-j276-from-2016/</p>	

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Subject	Exam Board
Level 1/2 Technical Award in Engineering Studies	NCFE
<p>Description:</p> <p>The Level 1/2 Technical Award in Engineering is designed to provide learners with the skills, knowledge and understanding of the applied study of good engineering practices and an understanding of working in the sector.</p> <p>Throughout this qualification, students will gain valuable knowledge of:</p> <ul style="list-style-type: none">• engineering disciplines• science and mathematics in engineering• how to read engineering drawings• properties and characteristics of engineering materials and why specific materials are selected for engineering applications• engineering tools, equipment and machines• production planning techniques• processing skills and techniques applied to materials for a manufacturing task equipment <p>The units are indicated below:</p> <ul style="list-style-type: none">• Understanding the Engineering World <i>Assessment: External exam (60 mins)</i> 40% of the technical award. Written examination: 80 marks 1 hour 30 minutes - a mixture of multiple-choice, short-answer and extended-response questions. The paper will include: multiple-choice questions, short-answer questions and extended-response questions.• Skills and Techniques in Engineering <i>Assessment: Synoptic project (externally moderated)</i> 60% of the technical award. The synoptic project will assess students' ability to effectively draw together their knowledge, understanding and skills from across the whole vocational area.	
<p>Link to Specification: https://www.qualhub.co.uk/qualification-search/qualification-detail/ncfe-level-12-technical-award-in-engineering-4593</p>	

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Subject	Exam Board
Systems Control in Engineering (Option) OCR	
<p>Description:</p> <p>The Cambridge National in Systems Control in Engineering introduces students to how microprocessor control systems are used in a variety of engineering environments. Students develop practical skills by designing, producing and testing the operation of simple electronic controls.</p> <p>To complete the course the students will study four units as follows:</p> <ul style="list-style-type: none">• Electronic principles - fundamentals of electronic circuits and how they relate to the design, maintenance and repair of electrical/electronic systems used in engineering products. Students will design, construct and test electronic circuits using appropriate techniques, procedures and equipment, including fault-finding and identifying potential electrical hazards. <i>Assessment: External exam (60 mins)</i>• Simulate, construct and test electronic circuits - develop knowledge and understanding of the construction techniques and processes used in the manufacture of electronic and electrical circuits. Students use computer-based simulation software to prototype and test the operation of circuits and produce designs for printed circuit boards (PCB). They also learn how to evaluate the performance of a simple electronic circuit. <i>Assessment: assignment (externally moderated)</i>• Engineering applications of computers - consider how computer and microprocessor systems are used in a variety of engineering activities. This includes how engineering industries use Computer Aided Design (CAD) and Computer Aided Manufacture (CAM) to design and manufacture new products. Students will look at the use of systems such as Programmable Logic Controllers (PLC) and Programmable Interface Controllers (PIC) in automated manufacturing. <i>Assessment: assignment (externally moderated)</i>• Process control systems - explore how different microprocessor and microcontroller control systems are used in a variety of domestic and commercial engineering contexts. Students develop a practical understanding of how such control systems are designed, simulated and tested, and they solve design problems using appropriate sensor, transducer and programmable logic controllers (PLC) or programmable interface controllers (PIC). <i>Assessment: assignment (externally moderated)</i>	
<p>Link to Specification:</p> <p>https://www.ocr.org.uk/qualifications/cambridge-nationals/engineering-manufacture-level-1-2-award-certificate-j832-j842/</p>	

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Subject	Exam Board
Level 1/2 Engineering Manufacture	OCR
<p>Description: This qualification is part of the new Cambridge Nationals in Engineering suite. It is aimed at students who wish to study the processes involved in manufacturing new engineered products. It provides students with the knowledge and skills required to operate manufacturing tools and equipment used to make products in accordance with a design specification, and develops their understanding of the processes and systems required to transfer a design concept into a mass produced quality product.</p> <p>Engineering manufacture is a discipline of engineering dealing with different manufacturing practices and processes using the machines, tools and equipment that turn raw materials into new products. This qualification will enable your students to study these processes. It will also allow them to operate the tools and equipment used to make products from the requirements of a design specification, as well as use relevant computer applications such as CAD/CAM, and CNC equipment.</p> <p>Units:</p> <ul style="list-style-type: none">• Engineering materials, processes and production• Preparing and planning for manufacture• Computer-aided manufacturing• Quality control of engineered products	
<p>Method of Assessment:</p> <p>Engineering materials, processes and production Written examination (1 hour– 60 marks)</p> <p>Preparing and planning for manufacture Internally assessed assignment, externally moderated</p> <p>Computer-aided manufacturing Internally assessed assignment, externally moderated</p> <p>Quality control of engineered products Internally assessed assignment, externally moderated</p>	
<p>Link to Specification: https://www.ocr.org.uk/qualifications/cambridge-nationals/engineering-manufacture-level-1-2-award-certificate-j832-j842/</p>	

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Subject	Exam Board
BTEC Technical Award in Digital Information Technology	Pearson
<p>Description: The Award gives learners the opportunity to develop sector-specific knowledge and skills in a practical learning environment. The main focus is on four areas of equal importance, which cover the:</p> <ul style="list-style-type: none">• development of key skills that prove your aptitude in digital information technology, such as project planning, designing and creating user interfaces, creating dashboards to present and interpret data• process that underpins effective ways of working in digital information technology, such as project planning, the iterative design process, cyber security, virtual teams, legal and ethical codes of conduct• attitudes that are considered most important in digital information technology, including personal management and communication• knowledge that underpins effective use of skills, process and attitudes in the sector such as how different user interfaces meet user needs, how organisations collect and use data to make decisions, virtual workplaces, cyber security and legal and ethical issues. <p>Units covered are:</p> <ul style="list-style-type: none">• Exploring User Interface Design Principles and Project Planning Techniques <i>Internally assessed assignment, externally moderated</i>• Collecting, Presenting and Interpreting Data <i>Internally assessed assignment, externally moderated</i>• Effective Digital Working Practices <i>Written examination</i>	
<p>Method of Assessment: All assessment for BTEC Technical Awards is criterion referenced, based on the achievement of all the specified learning outcomes. Each unit within the qualification has specified assessment and grading criteria which are to be used for grading purposes. A summative unit grade can be awarded at pass, merit or distinction: to achieve a 'pass' a learner must have satisfied all the pass assessment criteria to achieve a 'merit' a learner must additionally have satisfied all the merit grading criteria to achieve a 'distinction' a learner must additionally have satisfied all the grading distinction criteria</p>	
<p>Link to Specification: https://qualifications.pearson.com/en/qualifications/btec-tech-awards/digital-information-technology.html</p>	