# Y10 Curriculum Overview 2017-19

| Subject | Exam Board |
|---|---|
| **English Literature** | **AQA** |

**Description:**

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.

Students will read the following texts:

**Shakespeare and the 19th-century novel:**

- Macbeth
- A Christmas Carol

**Modern texts and poetry:**

- An Inspector Calls
- Poetry anthology
- Unseen poetry

In studying the set texts students should have the opportunity to develop the following skills:

- Reading comprehension and reading critically
- Writing

**Method of Assessment:**

**Paper 1: Shakespeare and the 19th-century novel**

Written examination (1 hour 45 minutes - 64 marks)

**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.

**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.

**Paper 2: Modern texts and poetry**

Written examination (2 hours 145 minutes - 96 marks)

**Section A Modern texts:** students will answer one essay question from a choice of two on their studied modern prose or drama text.

**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.

**Section C Unseen poetry:** Students will answer one question on one unseen poem and one question comparing this poem with a second unseen poem.

**Link to Specification:**

http://www.aqa.org.uk/subjects/english/gcse/english-literature-8702/specification-at-a-glance

# Y10 Curriculum Overview 2017-19

| Subject | Exam Board |
|---|---|
| **ENGLISH LANGUAGE** | **AQA** |

**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.

Subject content

- Explorations in creative reading and writing
- Writers' viewpoints and perspectives
- Non-exam assessment

**Method of Assessment:**

**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

**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

**Non-examination Assessment: Spoken Language**

Presenting, responding to questions and feedback, use of Standard English

**Link to Specification:**

http://www.aqa.org.uk/subjects/english/gcse/english-language-8700/specification-at-a-glance

# Y10 Curriculum Overview 2017-19

| Subject | Exam Board |
|---|---|
| **Mathematics** | **AQA** |

**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.

**Subject content**

1 Number
2 Algebra
3 Ratio, proportion and rates of change
4 Geometry and measures
5 Probability
6 Statistics

**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.

**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.

**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.

**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.

**Link to Specification:**

http://www.aqa.org.uk/subjects/mathematics/gcse/mathematics-8300/specification-at-a-glance

# Y10 Curriculum Overview 2017-19

| Subject | Exam Board |
|---|---|
| **Geography (Option)** | **AQA** |

**Description:**

This exciting course is based on a balanced framework of physical and human geography. It allows students to investigate the link between the two themes, and approach and examine the battles between the man-made and natural worlds.

Students who complete the course will have the skills and experience to progress onto A-level and beyond.

**Subject content:**

**Living with the physical environment**

Section A: The challenge of natural hazards

Section B: The living world

Section C: Physical landscapes in the UK

**Challenges in the human environment**

Section A: Urban issues and challenges

Section B: The changing economic world

Section C: The challenge of resource management

**Geographical applications**

Section A: Issue evaluation

Section B: Fieldwork

**Geographical skills**

Geographical skills

**Method of Assessment:**

This qualification is linear. Linear means that students will sit all their exams at the end of the course.

**Paper 1: Living with the physical environment**

Written examination (1 hour 30 minutes - 88 marks)

Question types: multiple-choice, short answer, levels of response, extended prose

**Paper 2: Challenges in the human environment**

Written examination (1 hour 30 minutes - 88 marks)

Question types: multiple-choice, short answer, levels of response, extended prose

**Paper 3: Geographical applications**

Written examination (1 hour 15 minutes - 76 marks)

Pre-release resources booklet made available 12 weeks before Paper 3 exam

Question types: multiple-choice, short answer, levels of response, extended prose

**Link to Specification:**

http://www.aqa.org.uk/subjects/geography/gcse/geography-8035/specification-at-a-glance

# Y10 Curriculum Overview 2017-19

| Subject | Exam Board |
|---|---|
| **Biology, Chemistry, Physics** | **AQA** |

**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.

**Biology:**

**Subject content**

1. Cell biology
2. Organisation
3. Infection and response
4. Bioenergetics
5. Homeostasis and response
6. Inheritance, variation and evolution
7. Ecology
8. Key ideas

**Chemistry:**

**Subject content**

1. Atomic structure and the periodic table
2. Bonding, structure, and the properties of matter
3. Quantitative chemistry
4. Chemical changes
5. Energy changes
6. The rate and extent of chemical change
7. Organic chemistry
8. Chemical analysis
9. Chemistry of the atmosphere
10. Using resources

**Physics:**

**Subject content**

1. Energy
2. Electricity
3. Particle model of matter
4. Atomic structure
5. Forces
6. Waves
7. Magnetism and electromagnetism
8. Space physics

**Method of Assessment:**

**Biology:**

**Paper 1**

Topics 1–4: Cell biology; Organisation; Infection and response; and Bioenergetics.

Written examination (1 hour 45 minutes – 100 marks)

# Y10 Curriculum Overview 2017-19

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

**Paper 2**

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

# Y10 Curriculum Overview 2017-19

| Subject | Exam Board |
|---|---|
| **Computer Science (Option)** | **OCR** |

**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.

Component 1 – COMPUTER SYSTEMS
Component 2 - COMPUTATIONAL THINKING, ALGORITHMS AND PROGRAMMING
COMPONENT 3 - A PROGRAMMING PROJECT

**Method of Assessment:**

**Component 1 Computer Systems**
Written examination (1 hour 30 minutes – 80 marks)

**Component 2 Computational thinking, algorithms and programming**
Written examination (1 hour 30 minutes – 80 marks)

**Component 3 Programming project**
Non-examined, externally moderated (20 hours - 40 marks)

**Link to Specification:**
http://www.ocr.org.uk/Images/350596-parents-and-students-guide.pdf

# Y10 Curriculum Overview 2017-19

| Subject | Exam Board |
|---|---|
| **Business (Option)** | **Edexcel** |

**Description:**
This updated, new qualification that is engaging and inspiring, and which reflects the demands of a truly modern and evolving business environment – a qualification that enables students to develop as commercially minded and enterprising individuals and helps them to succeed in their chosen pathway.

The main areas of study are:

**Theme 1: Investigating small business**

- Enterprise and entrepreneurship
- Spotting a business opportunity
- Putting a business idea into practice
- Making the business effective
- Understanding external influences on business

**Theme 2: Building a business**

- Growing the business
- Making marketing decisions
- Making operational decisions
- Making financial decisions
- Making human resource decisions

**Method of Assessment:**

**Theme 1: Investigating small business**
Written examination (1 hour 30 minutes – 90 marks)
The paper will consist of calculations, multiple-choice, short-answer and extended-writing questions

**Theme 2: Building a business**
Written examination (1 hour 30 minutes – 90 marks)
The paper will consist of calculations, multiple-choice, short-answer and extended-writing questions

**Link to Specification:**
http://qualifications.pearson.com/content/dam/pdf/GCSE/Business/2017/specification-and-sample-assessments/GCSE_Business_Spec_2017.pdf

# Y10 Curriculum Overview 2017-19

| Subject | Exam Board |
|---|---|
| **Certificate in Engineering Studies** | **NCFE** |

**Description:**

This level 2 qualification provides the students with a broad introduction to the world of engineering. It is designed to build and add to their knowledge in order to give them a solid understanding of some of the most important engineering principles. The course naturally compliments core GCSE subjects including maths and science (particularly Physics) but also draws on the students' creative and literacy skills.

The units are indicated below:

- Introduction to Engineering
- Introduction to Engineering Drawing
- Tools and Equipment for Engineering
- Engineering Materials and their properties

This qualification shows learners how to:

- develop a broad understanding of the engineering sector
- research a new idea
- use tools and equipment
- perform a range of techniques and processes using selected materials
- draw, develop and take part in an engineering project

**Method of Assessment:**

The assessment for the NCFE Level 2 Certificate in Engineering Studies consists of 2 types of assessment:

**Internal assessment** – portfolio of evidence. This will be graded by college staff and externally moderated by NCFE.

**External assessment** – assignment. This will be graded by NCFE.

**Link to Specification:**

http://www.ncfe.org.uk/media/813310/L2%20Engineering%20purpose%20statement.pdf

# Y10 Curriculum Overview 2017-19

| Subject | Exam Board |
|---|---|
| **Smart Product Design and Manufacture (Option)** | **BCA** |

**Description:**

The focus of this course is on the development of modern product design and manufacturing with a big emphasis on rapid prototype 3D printing methods. This qualification has the purpose of providing pupils with practical technical knowledge, understanding and skills in designing and manufacturing contemporary technological artefacts. A principal focus is on industrially produced Smart consumer devices incorporating user and environmentally responsive, customised products and systems.

To complete the course the students will study three units as follows:

- Product Design and Visualisation
- Product Manufacture
- Smart Electronics

**Method of Assessment:**

The majority of the course will be assessed continually has part of portfolio building for the three different units to be studied. There will also be a final written exam once all of the coursework has been completed.

**Link to Specification:**

http://www.blackcountryatelier.com/wp-content/uploads/2015/04/BCA_Smart_Product_Design_and_Manufacture_Presentation.pdf

# Y10 Curriculum Overview 2017-19

| Subject | Exam Board |
|---|---|
| **Level 1/2 Engineering Manufacture** | **OCR** |

**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.

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.

**Units:**

- Engineering materials, processes and production
- Preparing and planning for manufacture
- Computer-aided manufacturing
- Quality control of engineered products

**Method of Assessment:**

**Engineering materials, processes and production**
Written examination (1 hour– 60 marks)
**Preparing and planning for manufacture**
Internally assessed assignment, externally moderated
**Computer-aided manufacturing**
Internally assessed assignment, externally moderated
**Quality control of engineered products**
Internally assessed assignment, externally moderated

**Link to Specification:**
http://www.ocr.org.uk/Images/165427-summary-brochure.pdf

# Y10 Curriculum Overview 2017-19

| Subject | Exam Board |
|---|---|
| **BTEC First Certificate in Information Technology** | **Pearson** |

**Description:**

This Level 1/2 qualification provides the challenge and structures that help learners to acquire the skills and knowledge needed to work as professionals in the IT sector.

Units covered are:

- Communicating in the IT Industry
- Computer Systems
- Project Planning with IT
- Customising Software

**Method of Assessment:**

In BTEC Firsts all units are internally assessed with external moderation.
All assessment for BTEC First qualifications 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

**Link to Specification:**

http://qualifications.pearson.com/content/dam/pdf/BTEC-Firsts/Information-Technology/2010/Specification/BF021880-Firsts-in-Information-Technology-L2-spec-for-web-100810.pdf