

## English – Year 11 Only

GCSE English Paper 1: the features of creative writing and fiction (structure and language).

GCSE English Literature: *A Christmas Carol* by Charles Dickens and *Blood Brothers* by Willy Russell. Students should revise plot, character, and theme, language and context.

## Maths– Year 11 Only

### Foundation Tier

Angles, Bearings & Scale Drawings  
Number  
Factors, Multiples & Primes  
Algebra  
Fractions, Decimals & Percentages 1  
Representing Data & Averages 1  
Coordinates & Linear Graphs  
Working in 2D  
Sequences  
Angles & Polygons  
Linear Equations & Inequalities  
Probability  
Quadratic Expressions & Equations  
Circles  
Constructions & Loci  
Pythagoras & Trigonometry  
Fractions, Decimals & Percentages 2  
Ratio & Proportion  
Measures & Accuracy  
Vectors  
Working in 3D  
Representing Data & Averages 2  
Indices, Roots & Standard Form  
Graphs  
Probability of Combined Events

### Higher Tier

Angles & Polygons  
Bearings & Scale Drawings  
Calculations  
Algebraic Expressions  
Fractions, Decimals & Percentages  
Representing Data & Averages  
Coordinates & Linear Graphs

### Working in 2D

Linear Equations, Formulae & Functions  
Probability 1  
Representing Data  
Equations  
Graphs & Inequalities  
Ratio & Proportion  
Probability 2  
Constructions & Loci  
Circles & Circle Theorems  
Working in 3D  
Measures  
Factors, Multiples, Powers & Roots  
Pythagoras & Trigonometry  
Sequences  
Graphs & Functions  
Vectors  
Real Life Graphs  
Proof

# Science – Year 11 Only

## Biology

Homeostasis, The nervous system, The eye, The endocrine system, Diabetes, Water balance and the kidneys, Negative feedback (Higher only), Human reproduction, Auxins.

DNA and proteins (some triple only), Human migration, Meiosis, Genetics, Gregor Mendel (Triple only)

Evolution, Darwin, Wallace and Mendel (Triple only), Antimicrobial resistance, Selective breeding,

Genetic modification, Cloning, Classification and survival

Ecosystems, Predator prey relationships, Trophic levels and biomass (Triple only), Competition,

Cycling materials (Triple only), A changing environment, Waste and pollution, Food security (Triple only)

## Chemistry

Rates of Reaction, Reversible reactions and dynamic equilibria

Carbon Compounds as fuels and feedstock

Purification, formulations and Chromatography

Composition of the Earth's Atmosphere, Carbon Dioxide and Methane as greenhouse gases, Common atmospheric pollutants and their sources

## Physics

Forces, Distance and velocity time graphs, Weight or mass, Newtons 1st law of motion, Acceleration, Newtons 3rd Law of motion, Moments, Hooke Law, **Momentum, Pressure in fluids.**

Magnetism, Uses of electromagnets, Force on a wire, Uses of electromagnets, Electricity and magnetism

Waves, Required practical, Reflection and refraction of waves, Uses of waves, Electromagnetic spectrum, Required practical, **Colours, Lenses, Infrared radiation**

## **French**

Family and friends

Free time

Technology

Customs/Home/ neighbourhood/ region

Holidays and school

Education

Jobs and Careers

Global issues

## **Business Studies**

Topic 5 Marketing

Topic 6 Finance

Topic 1 Business in the real world

Topic 2 Influences on Business

Exam technique- answering 6, 9, 12 mark questions

## **PE**

Component 1 - fitness & body systems

Topic 1 - applied anatomy and physiology

Topic 3 - physical training

Component 2 - Health & performance

Topic 1 - health, fitness & well-being \*\*

Topic 2 - sport psychology

## **Music**

Western Classical Tradition 1650-1910 (Baroque, Classical, Romantic)

Traditional Music

Popular Music

Set works: Graceland & Mozart Clarinet Concerto

# Geography

Challenge of Natural Hazards unit and the Changing Economic World unit.

Challenge of Natural Hazards include: Tectonic Hazards with our case studies on Chile 2010 (HIC) and Nepal 2015 (LIC); Tropical Storms and Typhoon Haiyan (2013); UK Extreme weather and Somerset Levels (2014) and Climate Change.

Changing Economic World includes: Development indicators; global development; Development and improvements to the Quality of life in Nigeria; TNCs in Nigeria; the UK Economy; development in the UK

# History

Elizabeth

- English involvement in the Netherlands
- Changes in the treatment of the poor
- Challenges faced by Elizabeth when she became queen (legitimacy, debt, religion, gender, threats from France)
- Revolt of the Northern Earls and Catholic plots, Ridolfi, Babington, Throckmorton, Mary Queen of Scots

# DT

1. Materials & their properties (wood / plastic / metal / fabrics / card & paper / composites)
2. Energy & fossil fuels
3. Orthographic drawing
4. Mechanisms, movement & forces
5. Area / percentages
6. Internet of Things (IoT)
7. Design modification
8. Product evaluation
9. Plastic processes & equipment
10. Adhesives and surface finishes
11. CAD / CAM
12. Scale of Production
13. Jigs & moulds