**Year 11 PPE Topic Lists**

**Biology**

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| Key concepts in Biology   |
| Cells and Control  |
| Genetics  |
| Natural selection and Genetic Modification  |
| Health, Disease and Development  |

Please make sure you study all the core practicals in the topics provided and practice your science skills as this underpins all your learning.

**Business Studies**

**PPE Paper 1 topics:**

* Business activity:
* Business aims and objectives
* Business ownership
* Liability
* Business planning
* Stakeholders
* Enterprise and entrepreneurship
* Business growth and integration
* Marketing:
* Marketing mix
* Segmentation
* Market research
* People
* Recruitment
* Training
* Organisational structures and ways of working
* Motivation
* Employment law

**PPE Paper 2:**

* Business activity:
* Business planning
* Market share data
* Marketing
* Market research
* Purpose of marketing
* Demand
* People
* Communication in business
* Motivation
* Operations
* Business location
* Consumer law
* Production processes
* Quality of goods and services
* The sales process and customer service
* Working with suppliers

**Chemistry**

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| Key Concepts in Chemistry  |
| States of Matter and Mixtures  |
| Chemical Changes  |
| Extracting Metals and Equilibria  |

You will be given a periodic table for the exam. Please make sure you study all the core practicals in the topics provided and practice your science skills as this underpins all your learning.

**Citizenship**

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| --- | --- |
| Paper 1  | Local Government, inequality, diversity  |
|    | UK population change    |
|    | Direct democracy   |
|    | Voting systems    |
|    | Two chamber politics    |
|   | UK law-   Mediation Special constables Legal aid  |
|    | Access to justice    |
|    | Prisoners working   |
|    | Devolution    |
|    | UN Universal Declaration on Human Rights   |
|    | Integration in the UK   |
|    | Equality Act 2010   |
|    | Referendums  |
| Paper2   | Social media & action      |
|    | Participation in action    |
|    | Trade unions   |
|    | Collaboration with others in citizenship action.   |
|    | Voting        |
|    | Whose protecting Human Rights    |
|    | Charities                          |

**Combined Science**

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| --- | --- |
|   | **Combined Science**  |
| Biology  | Key concepts in Biology   |
|   | Cells and Control  |
|   | Genetics  |
|   | Natural selection and Genetic Modification  |
|   | Health, Disease and Development  |
| Chemistry  | Key Concepts in Chemistry  |
|   | States of Matter and Mixtures  |
|   | Chemical Changes  |
|   | Extracting Metals and Equilibria  |
| Physics  | Motion and forces  |
|   | Waves and the electromagnetic spectrum  |
|   | Radioactivity   |
|   | Conservation of energy  |
| You will be given all the equations for Physics and a periodic table for Chemistry.  |
| Please make sure you study all the core practicals in the topics provided and practice your science skills as this underpins all your learning.  |

**Computer Science**

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| **Paper 1**  | **Paper 2**  |
| CPU – components and performance Embedded systems Secondary storage Data storage units Systems software Data representation * Binary (conversion, addition, bit shifts)
* Hexadecimal
* Images
* Sound
* Text
 | Variables and constants Programming constructs Algorithms Arrays Types of error and testing a program Dry runs  |

**Digital Information Technology**

**Component 3: Effective Digital Working Practices**

1. **Section A Modern Technologies**
* **Ad hoc networks** *(open Wi-Fi, tethering/personal hotspot)*
* **Network security and performance** *(issues with open networks, performance issues with ad hoc networks)*
* **Cloud storage and computing**
* **Interface design and accessibility**
1. (fonts, colour schemes, alt text, buttons)
* **Collaboration**
* **Impact of modern technologies** *(24/7, remote working, inclusivity, collaboration, accessibility, security or distributed and dispersed data)*
* Remote working

1. **Section B Cyber Security**
* **Forms of attack** *(shoulder surfing, DoS, pharming, botnet, MITM, phishing)*
* **Malware** *(virus, spyware, rootkit, trojans, worms, ransomware)*
* **Why systems are attacked** *(fun, challenge, financial gain, industrial espionage, data theft, personal attacks, disruption)*
* **User access restriction** *(physical security, passwords, access levels, two-factor authentication & biometrics)*
* **Impact of security breach** *(reduction in production, financial loss, data loss, downtime, damage to public image, legal action)*
* **Encryption**
* **Data level protection** *(firewall, device hardening, anti-virus software)*

1. **Section C The wider implications of digital systems**
* **Acceptable Use Policy**
* **Sharing data responsibly** *(transactional data, website cookies)*
* **Environmental responsibilities**
* **Usage and setting policies** *(power saving settings, hard and soft copies, upgrades, replacements, repairs, recycling)*

1. **Section D Planning and communication in digital systems**
* **Data flow diagrams** *(Illustrate how data moves through an organisations system*

**English Language**

**Language Paper 2:**

You will receive two non-fiction texts:

1. Source A: 20th century                                                                                                                                                                                                        2. Source B: 19th century

\*They will be thematically linked.

Section A: Reading (Questions 1 – 4)

Section B: Writing (Question 5)

You will have 1 hour, 45 minutes to complete the paper.

Section A [40 marks]

Section B [40 marks]

AO5 [24 marks] and AO6 [16 marks]

The maximum mark for the paper is 80.

**Question 1: True or False** **[4 marks]**

You will be given eight statements from a specific part of one source. You will need to choose 4 true statements.

**Question 2: Write a summary of the differences [8 marks]**

You will be asked to use both sources in response to this question. You will need to synthesise information and ideas both explicit and implicit.

**Question 3: How does the writer use language? [12 marks]**

A descriptive focus will be given on one source. You will need to explain how the writer has used language to achieve certain effects and influence the reader.

**Question 4: Compare how the two writers convey… [16 marks]**

You will be asked to use both sources in response to this question. You will need to compare the different attitudes, viewpoints and perspectives to capture what a writer is writing about and how they present it to the reader.

**Question 5:** **A provocative statement will be given followed by a requirement to write in a form, for an audience and with a purpose [40 marks]**

You will need to consider content, organisation and technical accuracy (spelling, punctuation and grammar).

**Key Advice:**

- You should spend about 15 minutes reading through the sources and all five questions.                                             - You should plan your answer to Question 5 before you start to write.                                                                   - You should make sure you leave sufficient time to check your answer

**English Literature**

Literature Paper 1:

Section A (Shakespeare): ‘Macbeth’

Section B (The 19th Century Novel): ‘The Sign of Four’

You will be required to write about an ‘unseen’ extract and the play as a whole in response to a character-based question.

You will be assessed on one of the main characters:

‘Macbeth’: Macbeth or Lady Macbeth

‘The Sign of Four’: Holmes or Watson

You will have 1 hour, 45 minutes to complete the paper.

**You will be assessed on your ability to:**

**Section A and B:**

**AO1 [12 marks]:**Read, understand and respond to texts.

**AO2 [12 marks]:**Analyse the language, form and structure used by a writer to create meanings and effects, using relevant subject terminology where appropriate.

**AO3 [6 marks]:**Show understanding of the relationships between texts and the contexts in which they were written.

**Section A ONLY:**

**AO4 [4 marks]:** Use a range of vocabulary and sentence structures for clarity, purpose and effect, with accurate spelling and punctuation.

The **maximum mark** for the paper is **64.**

**Key Advice:**

- You should revise the **plot, context, themes and writer’s methods** in relation to these main characters.

- You should consider **how the character is presented and how they develop/change throughout the text.**

**French**
**Theme 1: Identity and culture**

Topic 1: Me, my family and friends • Relationships with family and friends • Marriage/partnership

Topic 2: Technology in everyday life • Social media • Mobile technology

Topic 3: Free-time activities • Music • Cinema and TV • Food and eating out • Sport

Topic 4: Customs and festivals in French-speaking countries/communities

**Theme 2: Local, national, international and global areas of interest**

Topic 1: Home, town, neighbourhood and region

Topic 2: Social issues • Charity/voluntary work • Healthy/unhealthy living

Topic 3: Global issues • The environment • Poverty/homelessness

Topic 4: Travel and tourism

**Theme 3: Current and future study and employment**

Topic 1: My studies

Topic 2: Life at school/college

Topic 3: Education post-16

Topic 4: Jobs, career choices and ambitions

***NOTE: The PPE will cover all these topics from all 3 themes for the Reading and Listening skills. However, for the Speaking and Writing skills the PPE will be based on Theme 1 and Theme 2 (topics 1 and 2 only as this is what we have covered so far in lessons).***

**Geography**

Changing Landscapes of the UK

Coastal Landscapes and processes

River Landscapes and processes

Ecosystems, biodiversity and management

Globalisation

Weather hazards and Climate Change (Exam content up until Specification point 2.5-Tropical cyclones)

**History**

***Paper 1: Medicine through time and the British Sector of the Western Front***

**Western Front Topics:**

* The Chain of evacuation- this means all 4 stages: Regimental Aid Posts, Dressing Stations, Casualty Clearing Stations and Base Hospitals
* Conditions of the trenches- this will include the trench system, Medical problems this caused and how this was overcome.

*You will need background context of all the battles as well to use as examples.*

**Medicine Through Time:**

*You need to focus on the following for each of the different time periods:*

* Medieval- Medical understanding
* Renaissance- Medical understanding
* Industrial- Everything: Causes, treatments, Diagnosis, Preventions, Hospitals, Key individuals, role of Government, Public Health
* Modern- Everything: Causes, treatments, Diagnosis, Preventions, Hospitals, Key individuals, role of Government, Public Health, impact of WWI and WWII, case study on lung disease

***Remember: Contextual knowledge from all aspects of this unit may be helpful in the exam***

***Paper 2: Weimar and Nazi Germany***

*You will need to focus on the following:*

* Topic 1: Weimar Germany- Particularly the years 1918-1923
* Topic 2: Hitler’s rise to power- 1920-1923
* Topic 3: Nazi Control and Dictatorship- all of this topic: creation of a dictatorship, police state, controlling and influencing attitudes, opposition, resistance and conformity
* Topic 4: Women and Children

***Remember: Contextual knowledge from all aspects of this unit may be helpful in the exam***

**Maths**

**Foundation PPE 1 Topics:**

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| --- |
| Angles(including around a point and a straight line)  |
| Area and perimeter  |
| Averages  |
| BIDMAS  |
| Bounds  |
| Changing the subject  |
| Circles  |
| Combinations   |
| Congruent  and similar shapes  |
| Conversions (including compound, metric and imperial units)  |
| Coordinates  |
| Distance time graphs  |
| Expanding and simplifying (including single and double brackets)  |
| Factorising   |
| Formulae  |
| Frequency trees  |
| Grouped data  |
| HCF  |
| Identifying what equations, expressions, inequalities and terms are  |
| Indices, square and cube numbers  |
| Inequalities  |
| Loci and scale drawings  |
| Money problems  |
| Multiples  |
| Negative numbers  |
| Number machines  |
| Percentages  |
| Pictograms, vertical line graphs and bar charts  |
| Pie chart  |
| Place value  |
| Plans and elevations  |
| Probability   |
| Quadratic graphs  |
| Ratio  |
| Scatter diagrams  |
| Sequences  |
| Solving equations  |
| Standard form  |
| Straight line graphs   |
| Substitution  |
| The four operations (x, +, -, ÷) including fractions and decimals  |
| Time problems  |
| Time series graphs  |
| Transformations  |
| Trigonometry and Pythagoras' theorem   |
| Two  way tables  |
| Vectors   |
| Venn diagrams  |
| Volume and surface area of 3D shapes  |

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| **Higher PPE 1 Topics:** |
| Angles in polygons (including interior, exterior and the sum of angles) |
| Area and perimeter |
| Averages |
| Bounds |
| Box plots and cumulative frequency graphs |
| Changing the subject |
| Circle theorems |
| Combinations |
| Compound units and conversions including imperial and metric units. |
| Congruent  and similar shapes |
| Construction and loci |
| Direct and inverse proportion |
| Equation of a circle |
| Equation of a straight line and perpendicular lines |
| Expand and simplifying expressions |
| Factorising |
| Fractional indices |
| Fractions and decimals |
| Graph transformations |
| HCF, product of prime factors |
| Histograms |
| Identities |
| Inequalities (regions) |
| Inverse functions |
| Iteration |
| Non-linear graphs (including reciprocal and exponential) |
| Percentages |
| Powers, roots, surds and indices |
| Probability and Venn diagrams |
| Pythagoras' Theorem |
| Quadratic graphs and its properties |
| Ratio |
| Reciprocals |
| Recurring decimals |
| Scatter graphs |
| Sequences |
| Simplifying algebraic fractions |
| Solving linear equations and  inequalities |
| Solving quadratic equations |
| Solving simultaneous equations |
| Speed distance time |
| Standard form |
| Substitution |
| Surface area and volume of 3D shapes |
| Time series |
| Transformations |
| Trigonometry (including exact values, SOH CAH TOA, sine/cosine rule and area) |
| Vectors |
| Velocity time graphs |

**Media Studies**

Your PPE result will be made up by:

* 40% your controlled assessment work completed
* 60% your PPE Component 1 exam

Component 1 Exam topics:

 • media language: how the media through their forms, codes and conventions communicate meanings

• representation: how the media portray events, issues, individuals and social groups

• media industries: how the media industries' processes of production, distribution and circulation affect media forms and platforms

• audiences: how media forms target, reach and address audiences, how audiences interpret and respond to them, and how members of audiences become producers themselves.

Set products for section A:



Set products for section B:

|  |  |
| --- | --- |
| Newspapers  | Radio  |
| The Sun <https://www.thesun.co.uk/>   | The Archers <http://www.bbc.co.uk/programmes/b006qpgr>   |
| Film (media industries only)  | Video games  |
| Spectre, 12 (2015) <http://www.007.com/spectre/>   | Fortnite (2017) <https://www.epicgames.com/fortnite/enUS/home>   |

**PE**

Section 1 Applied anatomy and physiology

1. The structure and function of the skeletal system
2. The structure and function of the muscular system
3. Movement analysis
4. The cardiovascular and respiratory systems
5. The effects of exercise on the body systems

Section 2 Physical training

2.1 Components of fitness

2.2 Applying the principles of training

2.3 Preventing injury in physical activity and training

**Physics**

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| Motion and forces  |
| Waves and the electromagnetic spectrum  |
| Radioactivity   |
| Conservation of energy  |

You will be given all the equations for Physics. Please make sure you study all the core practicals in the topics provided and practice your science skills as this underpins all your learning.
**RE**

**Christian Beliefs**

* Sin & Salvation
* The resurrection and ascension
* The Oneness of God and the Trinity
* Heaven and Hell
* God as omnipotent, loving and just
* The nature of God

**Christian Practices**

* Worship
* Prayer
* Christian persecution
* The role of the Church in the local community
* Holy Communion
* Baptism

**Islam Beliefs**

* Key beliefs of Sunni and Shia Islam
* Life after death
* The nature of God
* Muhammad and the Imamate
* Angels

**Islam Practices**

* Salah
* Sawm & Ramadan
* The Festival of Ashura
* Hajj Pilgrimage
* Shahadah
*

**Sociology**

Families and Households

Family types

Functions of the family

Perspectives on the family and gender roles

Conjugal role relationships (gender roles)

Research methods

Education

School types and key terminology

Educational achievement i) in school factors and  ii) out of school factors

Functions of education

Perspectives on education

Research methods

**Spanish**

**Theme 1: Identity and culture**

Topic 1: Me, my family and friends • Relationships with family and friends • Marriage/partnership

Topic 2: Technology in everyday life • Social media • Mobile technology

Topic 3: Free-time activities • Music • Cinema and TV • Food and eating out • Sport

Topic 4: Customs and festivals in French-speaking countries/communities

**Theme 2: Local, national, international and global areas of interest**

Topic 1: Home, town, neighbourhood and region

Topic 2: Social issues • Charity/voluntary work • Healthy/unhealthy living

Topic 3: Global issues • The environment • Poverty/homelessness

Topic 4: Travel and tourism

**Theme 3: Current and future study and employment**

Topic 1: My studies

Topic 2: Life at school/college

Topic 3: Education post-16

Topic 4: Jobs, career choices and ambitions

***NOTE: The PPE will cover all these topics from all 3 themes for the Reading and Listening skills. However, for the Speaking and Writing skills the PPE will be based on Theme 1 and Theme 2 (topics 1 and 2 only as this is what we have covered so far in lessons).***

**Sport**

Unit 1 Fitness for sport and exercise

Learning aim A – Components of fitness and the principles of training

Learning aim B – Fitness training methods

Learning aim C – investigate fitness testing to determine fitness levels.