

Year 11 Mock Revision Guidance

December 2022



English and English Literature – GCSE Mock Revision Guidance

English Language Paper 1:

No specific topics to revise but students can find practice resources and revision guidance here:
<https://ashmole.fireflycloud.net/english/ks4/year-11/gcse-revision-page---summer-2022>

English Literature Paper 2:

These are the texts to revise, along with a list of suggested themes (these are not exclusive but would be a good starting point):

An Inspector Calls - Revise the presentation of: responsibility; class; gender; inequality; Edwardian society; different generations.

Power and Conflict Poetry - Revise the presentation of: the power of man; the power of nature; the power of memory; conflict between people; conflict in war; conflicting ideas or ideologies

Unseen Poetry - No specific topics to revise because these poems are 'unseen'.

Maths (Higher) – GCSE Mock Revision Guidance

Paper 1 Topics	Paper 2 Topics
<ul style="list-style-type: none"> ■ Ratio and Proportion – dividing into shares; combining ■ Forming and solving Equations ■ Volume and Surface Area ■ Estimation and reasoning ■ Speed distance and time ■ Probability, Venn diagrams; tree diagrams ■ Properties of Cubic graphs ■ Area of circles, problem solving with reasoning ■ Linear Inequalities ■ Solving Quadratics ■ Box plots, comparing data ■ Similar Triangles ■ Similar Shapes – area and volume ■ Transformations: multistep; enlargements with negative and fractional scale factors ■ Inverse Proportion ■ Equations Geometry - forming and solving equations involving algebraic expressions ■ Simplifying and rationalising surds ■ Functions including inverse ■ Exponential graphs ■ Circle Theorems 	<ul style="list-style-type: none"> ■ Probability, Venn diagrams; tree diagrams ■ Linear Inequalities ■ Transformations: multistep; enlargements with negative and fractional scale factors ■ Number: fractions, prime factors, HCF, LCM ■ Solving equations ■ Percentages problem solving ■ Standard Form ■ Expected probability ■ Scatter Graphs ■ Averages ■ Column vectors – adding/subtracting/multiplying ■ Compound interest, working backwards ■ Rearranging equations ■ Factorising ■ Advanced trigonometry – cosine and sine rule ■ Triple brackets ■ Iteration in context ■ Indices ■ Histograms ■ Trigonometric Graphs, sketching and using to solve equations ■ 3D Trigonometry ■ Volume of pyramid

Maths (Foundation) – GCSE Mock Revision Guidance

Paper 1 Topics	Paper 2 Topics
<ul style="list-style-type: none"> ■ Number: percentage to decimals; ordering; bidmas; multiples; factors; prime numbers; operations with fractions; rounding; decimals to fractions; HCF. LCM; prime factors; reciprocals ■ Conversion of units; time; suitable units ■ Mean, median, mass ■ Drawing and problem solving with shape ■ Coordinate geometry ■ Probability, two-way tables, trees ■ Ratio and proportion, fractions as ratios; forming ratios; recipes ■ Substitution ■ Best buys ■ Transformation – rotations, reflections, enlargements 	<ul style="list-style-type: none"> ■ Number: percentage to decimals; ordering; bidmas; multiples; factors; prime numbers; operations with fractions; rounding; decimals to fractions; HCF. LCM; prime factors; reciprocals ■ Conversion of units; time; suitable units ■ Probability, two-way tables, trees ■ Transformation – rotations, reflections, enlargements ■ Angles in polygons, properties of polygons; names of polygons ■ Finding LCM – problems solving ■ Simplify expressions ■ Finding percentages; simplifying to a ratio ■ Pie charts ■ Coordinate geometry – midpoints ■ Plotting straight line graphs

- Angles in polygons, properties of polygons; names of polygons
- Volume and surface area of 3D shapes
- Estimation – in context of speed time distance problem
- Problem solving
- Recognising Cubic graphs
- Simplify expressions
- Expanding two brackets

- Problems solving with Area
- Plans and elevations
- Percentage of an amount
- Standard form
- Expected Probability
- Interpreting scatter graphs
- Best buy
- Problem solving using properties of shapes – trapezium, area and perimeter

Computer Science - Mock Revision Guidance

1. Fundamentals of Algorithms

- 1.1 Representing Algorithms
- 1.2 Efficiency of Algorithms
- 1.3 Searching Algorithms
- 1.4 Sorting Algorithms

2. Programming

- 2.1 Data Types
- 2.2 Programming Concepts
- 2.3 Arithmetic Operations
- 2.4 Relational Operations
- 2.5 Boolean Operations
- 2.6 Data Structures
- 2.7 Input/ Output
- 2.8 String Handling Operations
- 2.9 Random Number Generation
- 2.10 Structured Programming & Subroutines
- 2.11 Robust & Secure Programming

3. Fundamentals of Data Representation

- 3.1 Number Bases
- 3.2 Converting Between Number Bases
- 3.3 Units of Information
- 3.4 Binary Arithmetic
- 3.5 Character Encoding
- 3.6 Representing Images
- 3.7 Representing Sound
- 3.8 Data Compression

4. Computer Systems

- 4.1 Hardware & Software
- 4.2 Boolean Logic
- 4.3 Software Classification
- 4.5 Systems Architecture

5. Fundamentals of Computer Networks

6. Cyber Security

- 6.1 Fundamentals of Cyber Security
- 6.2 Cyber Security Threats
- 6.3 Methods to Detect & Prevent Cyber Security Threats

7. Relational Databases & Structured Query Language (SQL)

- 7.1 Relational Databases
- 7.2 Structured Query Language (SQL)

Chemistry Combined - GCSE Mock Revision Guidance

The following information is designed to guide you through your revision, which should have started. **This should be taking place in free periods and at home.**

Subject knowledge & content

Please note that **ANY TOPIC** may be covered within the exam so **ALL TOPICS** need to be revised.

Paper 1 1 hour 15 minutes – 70 marks
<p>Topic lists: (Refer to the AQA specification 5.1 – 5.5)</p> <p>5.1 Atomic structure and the periodic table 5.2 Bonding, structure, and the properties of matter 5.3 Quantitative chemistry 5.4 Chemical changes 5.5 Energy changes</p> <p>Required Practicals:</p> <p>Required practical activity 1: Preparation of a pure, dry sample of a soluble salt from an insoluble oxide or carbonate, using a Bunsen burner to heat dilute acid and a water bath or electric heater to evaporate the solution.</p> <p>Required practical activity 2: Investigate what happens when aqueous solutions are electrolysed using inert electrodes. This should be an investigation involving developing a hypothesis.</p> <p>Required practical activity 3: Investigate the variables that affect temperature changes in reacting solutions, such as acid plus metals, acid plus carbonates, neutralisations, displacement of metals.</p>

Materials:

Firefly – Resources are available on Year 11 revision Chemistry Firefly page.

CGP Revision guides

Classbooks – These have all the content taught

Kerboodle – Chemistry textbook available to use for revision.

Specification checklists – The topics covered are numbered with the specification points which can be used as a checklist.

YouTube videos – Free science lesson videos on YouTube designed on the AQA specification on all topics.

Educake – Complete as many Educake questions as you can to help cover as much scope in all the topic areas.

Flashcards – Create flashcards to help you with revision.

<https://www.physicsandmathstutor.com/> - Exam paper question practice and mark schemes available to self-assess.

Chemistry Triple - GCSE Mock Revision Guidance

The following information is designed to guide you through your revision, which should have started. **This should be taking place in free periods and at home.**

Subject knowledge and content

Please note that **ANY TOPIC** may be covered within the exam so **ALL TOPICS** need to be revised.

Paper 1 1 hour 45 minutes – 100 marks
<p>Topic lists: (Refer to the specification 4.1 – 4.5)</p> <p>4.1 Atomic structure and the periodic table 4.2 Bonding, structure, and the properties of matter 4.3 Quantitative chemistry 4.4 Chemical changes 4.5 Energy changes</p> <p>Required Practicals:</p> <p>Required practical activity 1: Preparation of a pure, dry sample of a soluble salt from an insoluble oxide or carbonate, using a Bunsen burner to heat dilute acid and a water bath or electric heater to evaporate the solution.</p> <p>Required practical activity 2: Determination of the reacting volumes of solutions of a strong acid and a strong alkali by titration.</p> <p>Required practical activity 3: Investigate what happens when aqueous solutions are electrolysed using inert electrodes. This should be an investigation involving developing a hypothesis.</p> <p>Required practical activity 4: Investigate the variables that affect temperature changes in reacting solutions, such as acid plus metals, acid plus carbonates, neutralisations, displacement of metals.</p>

Materials:

Firefly – Resources are available on Year 11 revision Chemistry Firefly page.

CGP Revision guides

Classbooks – These have all the content taught

Kerboodle – Chemistry textbook available to use for revision.

Specification checklists – The topics covered are numbered with the specification points which can be used as a checklist.

YouTube videos – Free science lesson videos on YouTube designed on the AQA specification on all topics.

Educake – Complete as many Educake questions as you can to help cover as much scope in all the topic areas.

Flashcards – Create flashcards to help you with revision.






<https://www.physicsandmathstutor.com/> - Exam paper question practice and mark schemes available to self-assess.

Physics - GCSE Mock Revision Guidance

The following information is designed to guide you through your revision, which should have started. You will sit a Paper 1 Mock in December.

Combined Mock Paper: 1 hour 15 minutes	Separate Mock Paper: 1 hour 45 minutes
Topic 1: Energy Topic 2: Electricity Topic 3: Particle model of matter Topic 4: Atomic structure	Topic 1: Energy Topic 2: Electricity Topic 3: Particle model of matter Topic 4: Atomic structure

Revision Resources

-  Exercise books
-  Textbook on Kerboodle
-  Lesson slides on Firefly
-  Exam questions on Firefly
-  Educake

Drop-in sessions

After school – Monday S1 (combined) and S2 (separate)

Other Materials

- <https://www.savemyexams.co.uk/>
- <https://www.physicsandmathstutor.com/>
- <https://www.gcsephysicsonline.com/>

More Detailed Topic List:

Combined Mock Paper: 1 hour 15 minutes	Separate Mock Paper: 1 hour 45 minutes
Topic 1: Energy 1.1.1 Energy stores and systems 1.1.2 Changes in energy 1.1.3 Energy changes in systems 1.1.4 Power 1.2.1 Energy transfers in a system 1.2.2 Efficiency 1.3 National and global energy resources Topic 2: Electricity 2.1.1 Standard circuit diagram symbols 2.1.2 Electrical charge and current 2.1.3 Current, resistance and potential difference 2.1.4 Resistors 2.2 Series and parallel circuits 2.3.1 Direct and alternating potential difference 2.3.2 Mains electricity 2.4.1 Power 2.4.2 Energy transfers in everyday appliances	Topic 1: Energy 1.1.1 Energy stores and systems 1.1.2 Changes in energy 1.1.3 Energy changes in systems 1.1.4 Power 1.2.1 Energy transfers in a system 1.2.2 Efficiency 1.3 National and global energy resources Topic 2: Electricity 2.1.1 Standard circuit diagram symbols 2.1.2 Electrical charge and current 2.1.3 Current, resistance and potential difference 2.1.4 Resistors 2.2 Series and parallel circuits 2.3.1 Direct and alternating potential difference 2.3.2 Mains electricity 2.4.1 Power 2.4.2 Energy transfers in everyday appliances

<p>2.4.3 The National Grid</p> <p>Topic 3: Particle model of matter</p> <p>3.1.1 Density of materials</p> <p>3.1.2 Changes of state</p> <p>3.2.1 Internal energy</p> <p>3.2.2 Temperature changes and specific heat capacity</p> <p>3.2.3 Changes of state and specific latent heat</p> <p>3.3.1 Particle motion in gases</p> <p>Topic 4: Atomic structure</p> <p>4.1.1 The structure of an atom</p> <p>4.1.2 Mass number, atomic number and isotopes</p> <p>4.1.3 The development of the model of the atom</p> <p>4.2.1 Radioactive decay and nuclear radiation</p> <p>4.2.2 Nuclear equations</p> <p>4.2.3 Half-lives and the random nature of radioactive decay</p> <p>4.2.4 Radioactive contamination</p> <p>4.4 Nuclear fission and fusion (separate only)</p>	<p>2.4.3 The National Grid</p> <p>2.5.1 Static charge (separate only)</p> <p>2.5.2 Electric fields (separate only)</p> <p>Topic 3: Particle model of matter</p> <p>3.1.1 Density of materials</p> <p>3.1.2 Changes of state</p> <p>3.2.1 Internal energy</p> <p>3.2.2 Temperature changes and specific heat capacity</p> <p>3.2.3 Changes of state and specific latent heat</p> <p>3.3.1 Particle motion in gases</p> <p>3.3.2 Pressure in gases (separate only)</p> <p>3.3.3 Increasing the pressure of a gas (separate only)</p> <p>Topic 4: Atomic structure</p> <p>4.1.1 The structure of an atom</p> <p>4.1.2 Mass number, atomic number and isotopes</p> <p>4.1.3 The development of the model of the atom</p> <p>4.2.1 Radioactive decay and nuclear radiation</p> <p>4.2.2 Nuclear equations</p> <p>4.2.3 Half-lives and the random nature of radioactive decay</p> <p>4.2.4 Radioactive contamination</p> <p>4.3.1 Background radiation (separate only)</p> <p>4.3.2 Different half-lives of radioactive isotopes (separate only)</p> <p>4.3.3 Uses of nuclear radiation (separate only)</p>
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Biology – GCSE Mock Revision Guidance

The following information is designed to guide you through your revision which should have started. You will sit a Paper 1 Mock in December.

Combined Mock Paper: 1 hour 15 minutes	Separate Mock Paper: 1 hour 45 minutes
Topic 1: Cell Biology Topic 2: Organisation Topic 3: Infection and Response Topic 4: Bioenergetics	Topic 1: Cell Biology Topic 2: Organisation Topic 3: Infection and Response Topic 4: Bioenergetics

More Detailed Topic List:

Combined Mock Paper: 1 hour 15 minutes	Separate Mock Paper: 1 hour 45 minutes
Topic 1: Cell Biology 1.1.1 Eukaryotes and prokaryotes 1.1.2 Animal and plant cells 1.1.3 Cell specialisation 1.1.4 Cell differentiation 1.1.5 Microscopy 1.2.1 Chromosomes 1.2.2 Mitosis and the cell cycle 1.2.3 Stem cells 1.3.1 Diffusion 1.3.2 Osmosis 1.3.3 Active Transport Topic 2: Organisation 2.1.1 Principles of organisation 2.2.1 The human digestive system 2.2.2 The heart and the blood vessels	Topic 1: Cell Biology 1.1.1 Eukaryotes and prokaryotes 1.1.2 Animal and plant cells 1.1.3 Cell specialisation 1.1.4 Cell differentiation 1.1.5 Microscopy 1.1.6 Culturing microorganisms (Separate only) 1.2.1 Chromosomes 1.2.2 Mitosis and the cell cycle 1.2.3 Stem cells 1.3.1 Diffusion 1.3.2 Osmosis 1.3.3 Active Transport Topic 2: Organisation 2.1.1 Principles of organisation 2.2.1 The human digestive system

2.2.3 Blood

2.2.4 Coronary heart disease: non-communicable disease

2.2.5 Health issues

2.2.6 The effect of lifestyle on some non-communicable disease

2.2.7 Cancer

2.3.1 Plant tissues

2.3.2 Plant organ system

Topic 3: Infection and Response

3.1.1 Communicable diseases

3.1.2 Viral diseases

3.1.3 Viral diseases

3.1.4 Fungal diseases

3.1.5 Protist diseases

3.1.6 Human defence systems

3.1.7 Vaccination

3.1.8 Antibiotics and painkillers

3.1.9 Discovery and development of drugs

Topic 4: Bioenergetics

4.1.1 Photosynthetic reaction

4.1.2 Rate of photosynthesis

4.1.3 Uses of glucose from photosynthesis

4.2.1 Aerobic and anaerobic respiration

4.2.2 Response to exercise

4.2.3 Metabolism

2.2.2 The heart and the blood vessels

2.2.3 Blood

2.2.4 Coronary heart disease: non-communicable disease

2.2.5 Health issues

2.2.6 The effect of lifestyle on some non-communicable disease

2.2.7 Cancer

2.3.1 Plant tissues

2.3.2 Plant organ system

Topic 3: Infection and Response

3.1.1 Communicable diseases

3.1.2 Viral diseases

3.1.3 Viral diseases

3.1.4 Fungal diseases

3.1.5 Protist diseases

3.1.6 Human defence systems

3.1.7 Vaccination

3.1.8 Antibiotics and painkillers

3.1.9 Discovery and development of drugs

3.2.1 Producing monoclonal antibodies (Separate only)

3.2.2 Uses of monoclonal antibodies (Separate only)

3.3.1 Detection and identification of plant disease (Separate only)

3.3.2 Plant defence response (Separate only)

Topic 4: Bioenergetics

4.1.1 Photosynthetic reaction

4.1.2 Rate of photosynthesis

4.1.3 Uses of glucose from photosynthesis

4.2.1 Aerobic and anaerobic respiration

4.2.2 Response to exercise

4.2.3 Metabolism

Art – GCSE Mock Revision Guidance

Produce an A2 page or equivalent every fortnight

How best to prepare for the Art Mock Exam 2022

Refer to your current projects schedule for the success criteria for each fortnightly stage of development process from Thought web to Composition.

Refer to the level 9 visual exemplar sent fortnightly via firefly to illustrate each stage of the development process.

<https://ashmole.fireflycloud.net/art/year-11/aut-1---reflections>

Use Pinterest to view possible artist links, drawing and painting techniques and writing frames to support annotations.

Revisit marking from the start of the project and address the improvement prompts.

Attend regular lunchtime and afterschool sessions to use specialist materials.

	Half Term Continue development 1
31st October [2 weeks]	October Half Term Development Two Continue to research your chosen theme and following consultation with your teacher, decide whether you are going to produce a painting, sculpture, textile, relief or print and explore different artists techniques in that genre. Use these methods to produce your own images relating to the theme. Take your own photographs to develop and display contact sheet in sketchbook.
14th November [2weeks]	Final Ideas Review and refine the successful areas from the development pages to produce good quality images of possible solutions for your final piece each should be completed using a different material and link to artists. If necessary, continue to take photographs and explore new artists methods appropriate to the theme.
28th November [2 weeks]	Review & Refine Continue to review and refine your methods intended in the media, which demonstrates your success. This will be the method and media you will to use in the exam.
12th December	Planning a composition Explore compositions a variety of compositions. Where possible, aim to work from primary photos. These should also be presented. Annotate your ideas including what method and media you intend to use.
	Drawing up Final Piece With the support of your teacher, explore most successful compositions planned and perfect the methods you will use in the exam. Draw up final piece. Final Piece will be completed under exam conditions: Monday 9th and Tuesday 10th January 2023 FINAL GRADE WILL BE THE FINAL PIECE AND ENTIRE EXAM PROJECT

Catering and Nutrition – GCSE MOCK Revision Guidance

Content coverage/ key questions
Bread, cereals, flour, oats, rice, potatoes and pasta
Fruit and vegetables, (fresh, frozen, dried, canned and juiced)
Milk, cheese and yoghurt
Meat, fish, poultry and eggs
Soya, tofu, beans, nuts and seeds
Butter, oils, margarine, sugar and syrup

Content coverage/ key questions
Macronutrients
<ul style="list-style-type: none"> I. Protein II. Fats, oils and lipids III. Carbohydrates
Micronutrients
<ul style="list-style-type: none"> I. Fat soluble vitamins II. Water soluble vitamins III. Minerals IV. Trace elements
Water and dietary fibre (NSP)

Content coverage/ key questions
Energy requirements of individuals
Plan balanced diets
Calculate energy and nutritional values of recipes, meals and diets

Content coverage/ key questions
The effect of cooking on food
Food Spoilage

Content coverage/ key questions
Factors affecting food choice
Preparation and cooking techniques
Developing recipes and meals

Business – GCSE Mock Revision Guidance

Paper 1 Topics Theme 1 Investigating Small Business	Paper 2 Topics Theme 2 Building a Business
<p>1.1 Enterprise and entrepreneurship</p> <p>1.1.1 The Dynamic Nature of Business</p> <ul style="list-style-type: none"> • Changes in technology • Changes in what consumers want • Products and services becoming obsolete • How business ideas come about • Adapting existing products, services and ideas <p>1.1.2 Risk and Reward</p> <ul style="list-style-type: none"> • Business Risk • Business Reward <p>1.1.3 The Role of Business Enterprise</p> <ul style="list-style-type: none"> • To produce goods or services • To meet customer needs • Added Value • The role of entrepreneurship 	<p>2.1 Growing the business</p> <p>2.1.1 Business Growth</p> <p>Methods of business growth and their impact:</p> <ul style="list-style-type: none"> • internal (organic) growth: new products (innovation, research and development), new markets (through changing the marketing mix or taking advantage of technology and/or expanding overseas) • external (inorganic) growth: merger, takeover. <p>The types of business ownership for growing businesses:</p> <ul style="list-style-type: none"> • public limited company (plc) <p>Sources of finance for growing and established businesses:</p> <ul style="list-style-type: none"> • internal sources: retained profit, selling assets • external sources: loan capital, share capital, including stock market flotation (public limited companies). <p>2.1.2 Changes in business aims and objectives</p> <p>Why business aims and objectives change as businesses evolve:</p> <ul style="list-style-type: none"> • in response to: market conditions, technology, performance, legislation, internal reasons. <p>How business aims and objectives change as businesses evolve:</p> <ul style="list-style-type: none"> • focus on survival or growth • entering or exiting markets • growing or reducing the workforce • increasing or decreasing product range. <p>2.1.3 Business and globalisation</p> <p>The impact of globalisation on businesses:</p> <ul style="list-style-type: none"> • imports: competition from overseas, buying from overseas • exports: selling to overseas markets • changing business locations • multinationals. <p>Barriers to international trade:</p> <ul style="list-style-type: none"> • tariffs • trade blocs <p>How businesses compete internationally:</p> <ul style="list-style-type: none"> • the use of the internet and e-commerce • changing the marketing mix to compete internationally. <p>2.1.4 Ethics, the environment and business</p>

	<p>The impact of ethical and environmental considerations on businesses:</p> <ul style="list-style-type: none"> ■ how ethical considerations influence business activity: possible trade-offs between ethics and profit ■ how environmental considerations influence business activity: possible trade-offs between the environment, sustainability and profit ■ the potential impact of pressure group activity on the marketing mix
<p>1.2 Spotting a business opportunity</p> <p>1.2.1 Customer needs</p> <ul style="list-style-type: none"> ■ Identifying customer needs: price, quality, choice, convenience ■ The importance of identifying customers, generating sales, business survival <p>1.2.2 Market research</p> <p>The purpose of market research:</p> <ul style="list-style-type: none"> ■ to identify and understand customer needs ■ to identify gaps in the market ■ to reduce risk ■ to inform business decisions <p>Methods of market research: Primary and Secondary</p> <p>The use of data in market research:</p> <ul style="list-style-type: none"> ■ qualitative and quantitative data ■ the role of social media in collecting market research data ■ the importance of the reliability of market research data <p>1.2.3 Market Segmentation</p> <p>How businesses use market segmentation to target customers:</p> <ul style="list-style-type: none"> ■ identifying market segments ■ market mapping to identify a gap in the market and the competition. <p>1.2.4 The Competitive Environment</p> <p>Understanding the competitive environment:</p> <ul style="list-style-type: none"> ■ strengths and weaknesses of competitors based on: price, quality, location, product range and customer service ■ The impact of competition on business decision making. 	<p>2.2 Making marketing decisions</p> <p>2.2.1 Product</p> <ul style="list-style-type: none"> ■ the design mix ■ the product life cycle ■ the importance to a business of differentiating a product <p>2.2.2 Price</p> <ul style="list-style-type: none"> ■ pricing strategies ■ influences on pricing strategies: technology, competition, market segments, product life cycle <p>2.2.3 Promotion</p> <ul style="list-style-type: none"> ■ appropriate promotion strategies for different markets ■ segments: advertising, sponsorship, product trials, special offers, branding the use of technology in promotion: targeted advertising online, viral advertising via social media, e-newsletters. <p>2.2.4 Place</p> <ul style="list-style-type: none"> ■ appropriate promotion strategies for different market segments: advertising, sponsorship, product trials, special offers, branding ■ the use of technology in promotion: targeted advertising online, viral advertising via social media, e-newsletters. <p>2.2.5 Using the marketing mix to make business decisions</p> <ul style="list-style-type: none"> ■ How each element of the marketing mix can influence other elements. ■ Using the marketing mix to build competitive advantage. ■ How an integrated marketing mix can influence competitive advantage.
<p>2.3 Putting the business idea into practice</p> <p>1.3.1 Business aims and objectives</p> <p>What business aims and business objectives are. Business aims and objectives when starting up:</p> <ul style="list-style-type: none"> ■ financial aims and objectives: survival, profit, sales, market share, financial security 	<p>2.3 Making operational decisions</p> <p>2.3.1 Business Operations</p> <p>The purpose of business operations:</p> <ul style="list-style-type: none"> ■ to produce goods ■ to provide services. <p>Production processes:</p>

- non-financial aims and objectives: social objectives, personal satisfaction, challenge, independence and control.

Why aims and objectives differ between businesses

1.3.2 Business revenues, costs and profits

The concept and calculation of:

- revenue
- fixed and variable costs
- total costs
- profit and loss
- interest
- break-even level of output
- margin of safety.

Interpretation of break-even diagrams:

- the impact of changes in revenue and costs
- break-even level of output
- margin of safety
- profit and loss.

1.3.3 Cash and cash flow

The importance of cash to a business:

- to pay suppliers, overheads and employees
- to prevent business failure (insolvency)
- the difference between cash and profit.

Calculation and interpretation of cash-flow forecasts:

- cash inflows
- cash outflows
- net cash flow
- opening and closing balances.

1.3.4 Sources of business finance

Sources of finance for a start-up or established small business:

- short-term sources: overdraft and trade credit
- long-term sources: personal savings, venture capital, share capital, loans, retained profit and crowd funding.

- different types: job, batch, flow
- the impact of different types of production process:
- keeping productivity up and costs down and allowing for competitive prices.

Impacts of technology on production:

- balancing cost, productivity, quality and flexibility.

2.3.2 Working with suppliers

Managing stock:

- interpretation of bar gate stock graphs
- the use of just in time (JIT) stock control.

The role of procurement:

- relationships with suppliers: quality, delivery (cost, speed, reliability), availability, cost, trust
- the impact of logistics and supply decisions on: costs, reputation, customer satisfaction.

2.3.4 The sales process

The sales process:

- product knowledge, speed and efficiency of service, customer engagement, responses to customer feedback, post-sales service.
- The importance to businesses of providing good customer service.

2.4 Making the business effective

1.4.1 The options for start-up and small businesses

The concept of limited liability:

- limited and unlimited liability
- the implications for the business owner(s) of limited and unlimited liability.

The types of business ownership for start-ups:

- sole trader, partnership, private limited company
- the advantages and disadvantages of each type of business ownership.

The option of starting up and running a franchise operation:

- the advantages and disadvantages of franchising.

2.4 Making financial decisions

2.4.1 Business Calculations

The concept and calculation of:

- gross profit
- net profit

Calculation and interpretation of:

- gross profit margin
- net profit margin
- average rate of return.

2.4.2 Understanding business performance

The use and interpretation of quantitative business data to support, inform and justify business decisions:

- information from graphs and charts
- financial data

<p>1.4.2 Business Location Factors influencing business location:</p> <ul style="list-style-type: none"> ■ proximity to: market, labour, materials and competitors ■ nature of the business activity ■ the impact of the internet on location decisions: e-commerce and/or fixed premises. <p>1.4.3 The Marketing Mix What the marketing mix is and the importance of each element:</p> <ul style="list-style-type: none"> ■ price, product, promotion, place. <p>How the elements of the marketing mix work together:</p> <ul style="list-style-type: none"> ■ balancing the marketing mix based on the competitive environment ■ the impact of changing consumer needs on the marketing mix ■ the impact of technology on the marketing mix: e-commerce, digital communication. 	<ul style="list-style-type: none"> ■ marketing data ■ market data. <p>The use and limitations of financial information in:</p> <ul style="list-style-type: none"> ■ understanding business performance ■ making business decisions.
<p>2.5 Understanding external influences on business</p> <p>1.5.1 Business Stakeholders Who business stakeholders are and their different objectives:</p> <ul style="list-style-type: none"> ■ shareholders (owners), employees, customers, managers, suppliers, local community, pressure groups, the government. <p>Stakeholders and businesses:</p> <ul style="list-style-type: none"> ■ how stakeholders are affected by business activity ■ how stakeholders impact business activity ■ possible conflicts between stakeholder groups. <p>1.5.2 Technology and business Different types of technology used by business:</p> <ul style="list-style-type: none"> ■ e-commerce ■ social media ■ digital communication ■ payment systems. <p>How technology influences business activity in terms of:</p> <ul style="list-style-type: none"> ■ sales ■ costs ■ marketing mix. <p>1.5.3 Legislation and business The purpose of legislation:</p> <ul style="list-style-type: none"> ■ principles of consumer law: quality and consumer rights ■ principles of employment law: recruitment, pay, discrimination and health and safety. <p>The impact of legislation on businesses:</p>	<p style="background-color: yellow;">This will not be assessed in your mocks! We will complete this unit in the Spring Term</p> <p>2.5 Making human resource decisions</p> <p>2.5.1 Organisational structures Different organisational structures and when each are appropriate:</p> <ul style="list-style-type: none"> ■ hierarchical and flat ■ centralised and decentralised. <p>The importance of effective communication:</p> <ul style="list-style-type: none"> ■ the impact of insufficient or excessive communication on efficiency and motivation ■ barriers to effective communication. <p>Different ways of working:</p> <ul style="list-style-type: none"> ■ part time, full time and flexible hours ■ permanent, temporary, and freelance contracts ■ the impact of technology on ways of working: efficiency, remote working. <p>2.5.2 Effective recruitment Different job roles and responsibilities:</p> <ul style="list-style-type: none"> ■ key job roles and their responsibilities: directors, senior managers, supervisors/team leaders, operational and support staff. <p>How businesses recruit people:</p> <ul style="list-style-type: none"> ■ documents: person specification and job description, application form, CV

- cost
- consequences of meeting and not meeting these obligations.

1.5.4 The economy and business

The impact of the economic climate on businesses:

- unemployment, changing levels of consumer income, inflation, changes in interest rates, government taxation, changes in exchange rates.

1.5.5 External Influences

The importance of external influences on business:

- possible responses by the business to changes in: technology, legislation, the economic climate.

- recruitment methods used to meet different business needs (internal and external recruitment).

2.5.3 Effective training and development

How businesses train and develop employees:

- different ways of training and developing employees:
formal and informal training, self-learning, ongoing training for all employees, use of target setting and performance reviews.

Why businesses train and develop employees:

- the link between training, motivation and retention
- retraining to use new technology.

Drama - GCSE Mock Revision Guidance

Section A- Roles and responsibilities

Section B- Noughts and Crosses

Section C- Live theatre review

Geography - GCSE Mock Revision Guidance

Geography Paper 1

Topic 1 Hazardous Earth

- 📖 Climate
- 📖 Extreme Weather
- 📖 Tectonics

Topic 2 Development Dynamics

- 📖 Scale of global inequality

Topic 3 Challenges of an Urbanising World

- 📖 Causes + Challenge
- 📖 Case study of why quality of life varies in an emerging megacity (Mumbai)

Geography Paper 2

Topic 4 The UK's Evolving Physical Landscape

- 📖 Why do physical landscapes vary?
- 📖 Coastal Change and Conflict
- 📖 River Processes + Pressures

Geography Paper 3

Section A

Topic 7

- 📖 People and The Biosphere

Section B

Topic 8

- 📖 Forests under Threat Section C

Topic 9

- 📖 Consuming Energy Resources

Section D

- 📖 Decision Making Exercise

History - GCSE Mock Revision Guidance

Topic 1: Medieval 1250 – 1500

- Ideas about the causes of disease and illness
- Approaches to treatment and prevention
- Black Death 1250 – 1500

Topic 2: Renaissance 1500 – 1700

- Ideas about the causes of disease and illness
- Approaches to treatment and prevention
- William Harvey
- Great Plague 1665

Topic 3: 18th and 19th Century Britain

- Ideas about the causes of disease and illness
- Approaches to treatment and prevention
- Fighting cholera in London 1854

Topic 4: Modern Britain 1900 – present

- Ideas about the causes of disease and illness
- Approaches to treatment and prevention
- Fleming, Florey and Chain – penicillin
- Lung cancer

Topic 5: Medicine on the Western Front

- WW1 Battles, Trenches, Transportation
- Wounds, injuries, diseases, infections
- Chain of evacuation, improvements in surgery
- Prague Spring / Invasion of Czechoslovakia
- Détente
- Invasion of Afghanistan
- Reagan and the 2nd Cold War
- Gorbachev and his reforms
- End of Arms Race
- End of Communism and the Cold War
- Reagan and the 2nd Cold War

Topic 2: Overseas 1189 – 1204

- Richard, John, loss of Normandy

Topic 3: John's downfall 1205 – 1206

- Dispute with the Pope
- Worsening relations with the barons
- Magna Carta and the First Baron's War
- Succession
- Richard, John, loss of Normandy

Revision Lectures:

Wednesday 9th November – The Reign of King John 1199-1216 – 3:30 – 4:15

Wednesday 16th November – The Cold War: 1968-1991 – 3:30 – 4:15

Revision Session (Exam Skills)

Wednesday 23rd November – Paper 2 – The Cold War – 3:30 – 4:15

Wednesday 30th November – Paper 1 – Medicine Through Time – 3:30 – 4:15

Music - GCSE Mock Revision Guidance

Our pupils will be tested on all content taught so far. Their topics will be:

AOS1: Western music 1700- 1850

AOS2: Vocal music




AOS3: Music for stage and screen

AOS4: Fusion

Product Design – GCSE Mock Revision Guidance

Exam: Thursday 15th December P3 & P4

- 1 paper, 1hour 45 minutes
- 100 marks: 40% Core Theory, 60% Polymer Theory

Manufacturing Techniques
<ul style="list-style-type: none">  Vacuum Forming  Injection Moulding  Laser Cutting

Core Theory 40%	Topics to revise
1.1 Impact of New and Emerging Technologies	1.1.3, 1.1.8
1.2 How Critical Evaluation of Technologies Informs Design	All
1.3 Energy Generation and Storage	1.3.1, 1.3.3
1.4 Modern, Smart, Composite Materials and Technical Textiles	ALL
1.5 Mechanical Devices	1.5.1, 1.5.8
1.8 Metals	ALL MATERIALS
1.9 Paper and Boards	
1.10 Polymers	
1.11 Textiles	
1.12 Timbers	
1.13 Contexts Informs Outcomes	ALL
1.14 Environmental, Social and Economic Challenges	ALL
1.15 Past and Present Designer	1.15.1

Polymer Theory 60%	Topics to revise
4.1 Design Contexts	ALL SECTIONS
4.2 Sources, Origins, Properties, Social and Ecological Footprints	
4.3 Selection of Thermoforming and Thermosetting Polymers	
4.4 Forces, Stresses and Reinforcing Polymers	

Textiles - GCSE Mock Revision Guidance

Exam: Thursday 15th December P3 & P4

- 1 paper, 1hour 45 minutes
- 100 marks: 40% Core Theory, 60% Textiles Theory

Core Theory 40%	Topics to revise
1.1 Impact of New and Emerging Technologies	All
1.2 How Critical Evaluation of Technologies Informs Design	All
1.4 Modern, Smart, Composite Materials and Technical Textiles	SMA, Argo textiles, Temperature responsive polymer, protective textiles
1.8 Metals	All
1.9 Paper and Boards	All
1.10 Polymers	All
1.11 Textiles	All
1.12 Timbers	Plywood, mahogany

Textiles Theory 60%	Topics to revise
6.1 Design Contexts	ALL SECTIONS
6.2 Sources, Origins, Properties, Social and Ecological Footprints	
6.3 Selection of natural, synthetic, woven and non-woven, knitted, blended and mixed-fibre textiles	
6.4 Forces, Stresses and Reinforcing Polymers	
6.5 Stock form, size and quantity	
6.6 Alternative Processes for scale of production	
6.7 Specialist techniques, processes, tools and equipment	
6.8 Surface Treatments and Finished for natural, synthetic, woven and non-woven, knitted, blended and mixed-fibre textiles.	

Spanish - GCSE Mock Revision Guidance

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 Spanish-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

Physical Education - GCSE Mock Revision Guidance

Paper 1 Topics	Paper 2 Topics
<ul style="list-style-type: none">■ The structure and functions of the musculoskeletal system■ The structure and functions of the cardio-respiratory system■ Anaerobic and aerobic exercise■ The short and long-term effects of exercise■ Movement analysis■ The relationship between health and fitness and the role that exercise plays in both■ The components of fitness, benefits for sport and how fitness is measured and improved■ The principles of training and their application to personal exercise/training programmes■ How to optimise training and prevent injury■ Effective use of warm up and cool down	<ul style="list-style-type: none">■ Classification of skills (basic/complex, open/closed)■ The use of goal setting and SMART targets to improve and/or optimise performance■ Basic information processing■ Guidance and feedback on performance■ Mental preparation for performance■ Engagement patterns of different social groups in physical activity and sport■ Commercialisation of physical activity and sport■ Performance Enhancing Drugs■ Spectator behaviour and conduct

Religious Studies – GCSE Mock Revision Guidance

Christianity: Beliefs and Teachings Christianity: Practices Relationships and Families Religion and Life

French – GCSE Mock Revision Guidance

Section A (MC & short answer in English)
Revision
Music
Sports
Holidays
Friendship issues
Charity shops
Health
Traffic & Travel
Jobs
Section B (answer in French)
Different kinds of school
Social media

90w answer (choose one)
<ul style="list-style-type: none">■ Technology■ Shopping■ School/Future Plans
150w answer
<ul style="list-style-type: none">■ Sport■ Your region■ School studies
Translation
Translate a paragraph into French (mixes all themes)

Section A (Questions & answers in English)
Sports
Tourism
Films
Literary text
Health
Environment
Future plans

Section B (Questions & answers in French)

Literary text

School

Charities

Music

Section C (Translation into English)

Translate a paragraph into English (mixes all themes)
