

Year 11
Revision
Booklet
2023-24



This booklet contains all the GCSE and BTEC subjects that will be sat in the December mocks and in the Summer term.

You have been given spaces to complete the following:

- 1. RAG rate all the December mock topics for your subjects. This will allow you to see where you feel confident and which topics you need to immediately prioritise.**
- 2. RAG rate the topics once your mocks have been marked and passed back to you. You can then see where your gaps are when in an exam situation.**
- 3. Repeat this process to allow you to plan for the summer exams.**

English Language

December Mocks			
Topic	1	2	3
Paper 2 Reading Skills Q1-True/false			
Paper 2 Reading Skills Q2-Summarise			
Paper 2 Reading Skills Q3-Language analysis			
Paper 2 Reading Skills Q4-Comparison			
Paper 2 Writing Skills Speeches			
Paper 2 Writing Skills Letters			

Summer Examination			
Topic	1	2	3
Paper 1 Reading Skills Q1-List/find questions			
Paper 1 Reading Skills Q2-Language analysis			
Paper 1 Reading Skills Q3-Structure analysis			
Paper 1 Reading Skills Q4-Evaluation			
Paper 1 Writing Skills Narrative Writing			
Paper 1 Writing Skills Descriptive writing			
Paper 2 Reading Skills			

Q1-True/false			
Paper 2 Reading Skills Q2-Summarise			
Paper 2 Reading Skills Q3-Language analysis			
Paper 2 Reading Skills Q4-Comparison			
Paper 2 Writing Skills Speeches			
Paper 2 Writing Skills Letters			
Paper 2 Writing Skills Articles			

English Literature

December Mocks			
Topic	1	2	3
Romeo and Juliet Theme of Fate			
Romeo and Juliet Theme of Conflict			
Romeo and Juliet Character – Mercutio			
Romeo and Juliet Character - Tybalt			
Jekyll and Hyde Theme of duality			
Jekyll and Hyde Theme of secrecy and mystery			
Jekyll and Hyde Use of setting			
Jekyll and Hyde Character of Jekyll			

Summer Examination

Topic	1	2	3
Romeo and Juliet Plot			
Romeo and Juliet Key characters – traits, key scenes and quotes			
Romeo and Juliet Key themes – Conflict			
Romeo and Juliet Key themes – Love – romantic, family			
Romeo and Juliet Key themes – Youth vs age			
Romeo and Juliet Key themes – Fate			
Jekyll and Hyde Plot			
Jekyll and Hyde Key characters –traits, key scenes and quotes			
Jekyll and Hyde Key themes – Violence			
Jekyll and Hyde Key themes – Duality			
Jekyll and Hyde Key themes – Appearance Vs Reality			
Jekyll and Hyde Key themes – Reputation			
Jekyll and Hyde Key themes – Good vs Evil			
An Inspector Calls Plot			
An Inspector Calls Key characters – traits, key scenes and quotes			
An Inspector Calls Key themes - Responsibility			
An Inspector Calls Key themes - Youth vs Age			
An Inspector Calls Key themes - Class			

An Inspector Calls Key themes - Gender			
An Inspector Calls Key themes - Capitalism vs Socialism			
Power and Conflict Poetry The general context for each poem			
Power and Conflict Poetry How poems are linked by theme			
Power and Conflict Poetry 3-5 quotes per poem			

Maths

All previously taught topics could come up in the mocks. We have not taught these topics this year, and so are worth revising:

December Mocks			
Topic	1	2	3
Transformations			
Number (HCF, LCM, Primes, surds, fractions, decimals, percentages, recurring decimals)			
Algebra (Sequences, Quadratics (solving, sketching), expanding, factorising, solving, simultaneous), inequalities and functions.			
Triangles (Pythagoras, trigonometry, sine rule, cosine rule)			
Properties of Shapes (angles, sides etc.)			
Angles in parallel lines			
Ratio and Proportion			
Linear Graphs			

Summer Examination			
Topic	1	2	3
Number			
Algebra			
Geometry			
Probability			
Statistics			
Ratio and Proportion			

Science

Mock Priorities: Paper 1

Highlighted are Y9 taught

HT means higher tier

T means triple only

Biology	Chemistry	Physics
<p>BI</p> <ul style="list-style-type: none"> • Eukaryotes and prokaryotes • Cell structure • Microscopes required practical (RP) • Differentiation • Stem cells • Cell Cycle • Diffusion, Osmosis, Active Transport • RP Osmosis • <i>Culturing microorganisms (T)</i> 	<p>CI</p> <ul style="list-style-type: none"> • Atoms, elements, compounds, mixtures • Balancing equations • Development of the model of the atom • Atomic structure • Electronic structure • Periodic table development • Groups 0, 1 & 7 • <i>Transition metals (T)</i> 	<p>PI</p> <ul style="list-style-type: none"> • Energy stores and systems • Kinetic energy, EPE, GPE • Specific heat capacity • RP Specific heat capacity • Power • Dissipation of energy • Efficiency • Energy resources • <i>RP 2: Insulation (T)</i>

<p style="text-align: center;">B2</p> <ul style="list-style-type: none"> • Organisation • Digestive System, Enzymes and Digestive Enzymes • RP Food Tests • RP Amylase • Heart, Blood and Blood vessels • Health: cancer, CHD. • Plants: tissues, organs, leaf structure, • Transpiration 	<p style="text-align: center;">C2</p> <ul style="list-style-type: none"> • Ionic Bonding • Ionic compounds • Covalent bonding • Giant covalent compounds including polymers, diamond and graphite • Metallic Bonding • States of matter and state symbols • Metals and alloys • <i>Nanoparticles (T)</i> 	<p style="text-align: center;">P2</p> <ul style="list-style-type: none"> • Circuit symbols • Ohms Law • Charge • RP Resistance of a wire • RP IV – and graphs • Series & Parallel • DC & AC • Mains electricity and energy transfers • National grid • <i>Static electricity (T)</i> • <i>Electric fields (T)</i>
<p style="text-align: center;">B3</p> <ul style="list-style-type: none"> • Bacterial, viral, fungal and protist diseases. • Human defence • Vaccination • Antibiotics and painkillers • Development of drugs • <i>Monoclonal antibodies (T)</i> • <i>Plant diseases and defences (T)</i> 	<p style="text-align: center;">C3</p> <ul style="list-style-type: none"> • Conservation of mass • Relative formula mass • Calculating moles (HT) • Avogadro's Constant (HT) • Limiting Reactants (HT) • Concentration of solutions • <i>% yield (T)</i> • <i>Atom economy (T)</i> • <i>Concentration in mol/dm³ (HT)</i> <i>(T)</i> 	<p style="text-align: center;">P3</p> <ul style="list-style-type: none"> • Density of materials • RP Density • Changes of state • Internal energy • Specific latent heat • Particle motion in gases • <i>Pressure in gases (T)</i> • <i>Increasing pressure (T) (HT)</i>
<p style="text-align: center;">B4</p> <ul style="list-style-type: none"> • Photosynthesis: equation, factors affecting rate • RP Light Intensity on pondweed • Uses of glucose • Aerobic respiration • Anaerobic Respiration • Metabolism 	<p style="text-align: center;">C4</p> <ul style="list-style-type: none"> • Metal oxides • Reactivity series • REDOX reactions • Strong and weak acids (HT) • Acids and metals • Neutralisation • pH scale • RP Making Salts • Electrolysis • <i>RP Titration (T)</i> 	<p style="text-align: center;">P4</p> <ul style="list-style-type: none"> • Atomic Structure • Mass number • Development of atom • Radioactive decay • Nuclear equations • Half life • Radioactive contamination • <i>Background radiation (T)</i> • <i>Nuclear fission (T)</i> • <i>Nuclear fusion (T)</i>
	<p style="text-align: center;">C5</p> <ul style="list-style-type: none"> • Exo and endothermic • RP temperature change • Reaction Profiles • Bond energies (HT) • <i>Fuel cells and batteries (T)</i> 	

Exam Priorities: All Paper 1 plus Paper 2:

HT means higher tier

T means triple only

Biology	Chemistry	Physics
<p>B5</p> <ul style="list-style-type: none"> • Homeostasis • Nervous system • RP Reaction Times • Endocrine system • Blood glucose • Hormones in human reproduction • Contraception • IVF (HT) • Feedback systems (HT) • <i>The brain (T)</i> • <i>The eye (T)</i> • <i>Body temperature (T)</i> • <i>Kidneys (T)</i> • <i>Plant hormones (T)</i> 	<p>C6</p> <ul style="list-style-type: none"> • Calculating rates of reaction • RP Rate of reaction • Collision theory • Catalysts • Reversible reactions • Le Chatelier's Principle (HT) 	<p>P5</p> <ul style="list-style-type: none"> • Scalar and vector quantities • Types of force • Weight, mass and gravity • Work Done • Elasticity • RP Hooke's Law • Distance and displacement • Speed and Velocity • Acceleration • RP Acceleration • Newton's Laws • Reaction Time and Stopping Distances • Momentum (HT) • <i>Moments (T)</i> • <i>Pressure in fluids (T)</i>
<p>B6</p> <ul style="list-style-type: none"> • Sexual and asexual • Meiosis • DNA and inheritance • Inherited disorders • Variation • Evolution and evidence • Genetic engineering and selective breeding • Extinction • Classification • <i>Advantages of sexual and asexual reproduction (T)</i> • <i>Structure of DNA (T)</i> • <i>Cloning (T)</i> • <i>Theory of evolution (T)</i> • <i>Speciation</i> • <i>Mendel's Genetics (T)</i> 	<p>C7</p> <ul style="list-style-type: none"> • Crude oil • Fractional distillation • Cracking • <i>Alkenes (T)</i> • <i>Alcohol (T)</i> • <i>Carboxylic Acids (T)</i> • <i>Polymerisation (T)</i> • <i>Amino Acids (T)</i> • <i>DNA (T)</i> 	<p>P6</p> <ul style="list-style-type: none"> • Transverse & Longitudinal Waves • Wave Properties • RP Ripple Tank • Electromagnetic Waves: uses and application • RP: Radiation • <i>Reflection of Waves (T)</i> • <i>Sound Waves (T)</i> • <i>Waves for detection or exploration (T)</i> • <i>Lenses (T)</i> • <i>Black body radiation (T)</i>
	<p>C8</p> <ul style="list-style-type: none"> • Pure Substances • Formulations • Chromatography • RP Chromatography • Gas Tests • <i>Flame Tests (T)</i> • <i>Metal Hydroxides (T)</i> • <i>RP Ion Identification (T)</i> • <i>Flame emission spectroscopy (T)</i> 	<p>P7</p> <ul style="list-style-type: none"> • Poles of a magnet • Magnetic fields • Electromagnets • Left hand rule (HT) • Motors (HT) • Loudspeaker (T) (HT) • Uses of generator effect (T) (HT) • Microphones (T) (HT) • Transformers (T) (HT)

<p style="text-align: center;">B7</p> <ul style="list-style-type: none"> •Communities •Abiotic and Biotic •Adpatations •Levels of organisation •RP Species Distribution •Biodiversity •Waste management and land use •Deforestation •Global warming •Decomposition (T) •RP Decay (T) •Enviornmental Change (T) •Trophic Levels (T) •Biomass (T) •Food security, farming and fishing (T) •Biotechnology (T) 	<p style="text-align: center;">C9</p> <ul style="list-style-type: none"> •Earths Atmosphere •Changing atmosphere •Greenhouse gases •Climate change •Carbon footprint •Pollutants 	<p style="text-align: center;"><i>P8 – TRIPLE ONLY</i></p> <ul style="list-style-type: none"> •Solar system •Life cycle of a star •Orbital motion •Red-shift
	<p style="text-align: center;">C10</p> <ul style="list-style-type: none"> •Earths Resources •Potable Water •RP Water Purification •Waste water treatment •Life cycle assessments •Corrosion (T) •Alloys (T) •Ceramic and composites (T) •Haber Process (T) •NPK Fertilisers (T) 	

History

December Mocks			
Topic	1	2	3
Conflict and Tension 1919 – 1939			
Germany 1890 - 1945			

Summer Examination			
Topic	1	2	3
Conflict and Tension 1919 – 1939			
Germany 1890 – 1945			
Elizabethan England 1568-1603			
Power and the People 1170 – Present day			

Geography

December Mocks			
Topic	1	2	3
UK landscapes (coasts and rivers)			
Weather hazards and climate change			
Global Development			
Changing Cities			
Coastal Fieldwork			

Summer Examination			
Topic	1	2	3
UK Landscapes (coasts and rivers)			
Weather Hazards and Climate Change			
Global Development			
Coasts Fieldwork			
Human Fieldwork			
Changing Cities			
Ecosystems and Biodiversity			
Resource Management			
UK Challenges			

French

December Mocks			
Topic	1	2	3
Self, family and friends			
Hobbies			
TV, cinema and music			
Technology and social media			
Festivals and celebrations			
Home and area			
Holidays			
Past, present and future tense			
Forming questions for speaking exam			
General conversation questions			

Summer Examination			
Topic	1	2	3
Self, family and friends			
Hobbies			
TV, cinema and music			
Technology and social media			
Festivals and celebrations			

Home and area			
Holidays			
School			
Healthy living			
Jobs and future plans			
Environment			
Social issues (homelessness and poverty)			
Past, present, imperfect, future and conditional tenses			

Engineering

December Mocks			
Topic	1	2	3
Types of Drawings			
Working Drawings			
Design Specification			
Design Cycle			
Influences on Engineering Design			
CAD Software			
Modelling Methods			
Evaluating Design Ideas			

Summer Examination			
Topic	1	2	3
Design Strategies			
Design Cycle			
Design Process			
Make and Evaluate			
Design Specification			
Manufacturing Considerations			
Influences on Engineering Design			
Types of Drawings			
Working Drawings			
CAD Software			
Modelling Methods			
Evaluating Design Ideas			

D&T

December Mocks			
Topic	1	2	3
Identifying requirements			
Existing products			
Textiles			

User centred design			
Standard components			
Maths			
Metals			
Drawing methods			
Electronic systems			
Implications of wider issues			
Material finishes			
Lifecycle analysis			

Summer Examination			
Topic	1	2	3
Identifying requirements			
Existing products			
Implications of wider issues			
New & emerging technologies			
Design solutions			
User centred design			
Drawing methods			
Systems thinking			
Papers & boards			
Timbers			
Metals			
Polymers			

Textiles			
Modern & smart materials			
Physical & working properties			
Material finishes			
Lifecycle analysis			
Stock forms & standard components			
Controlled movement			
Electronic systems			
Joining methods CAD / CAM			
Scales of production			

Food & Nutrition

December Mocks			
Topic	1	2	3
Section A: 20 Multiple Choice Questions from the following 5 topics...			
Food choice			
Food science			
Functional and chemical properties of food			
Nutritional needs and health			
Food safety			
Section B:			
Specific Dietary Needs			
Sensory Testing			
Cheese Making Process			
Healthy Eating			

Food Sustainability			
Food Science (Fats and Carbohydrates)			
Recipe Faults			
Health and Safety and Food Poisoning			

Summer Examination			
Topic	1	2	3
Nutritional needs and health			
Macronutrients (protein, fats and carbohydrates) / micronutrients (vitamins and minerals)			
Energy Needs			
Healthy Eating/ Government guidelines			
Nutritional Analysis			
Food science			
Cooking of food and heat transfer			
Functional and chemical properties of food (Fats, Protein and Carbohydrates)			
Raising Agents			
Food safety			
Food spoilage and contamination			
The signs of food spoilage			
Microorganisms in food production			
Bacterial contamination			
Food choice			
Factors which influence food choice			
Food choice related to religion, culture, ethical and moral beliefs and medical conditions			
Food labelling and marketing influences			

Computer Science

December Mocks			
Topic	1	2	3
<u>Paper 1</u>			
Topic 1: Computational thinking – understanding of what algorithms are, what they are used for and how they work; ability to follow, amend and write algorithms; ability to construct truth tables.			
Topic 2: Data – understanding of binary, data representation, data storage and compression.			
Topic 3: Computers – understanding of hardware and software components of computer systems and characteristics of programming languages.			
Topic 4: Networks – understanding of computer networks and network security.			
Topic 5: Issues and impact – awareness of emerging trends in computing technologies, and the impact of computing on individuals, society and the environment, including ethical, legal and ownership issues.			
<u>Paper 2 – Coding Paper on computer</u> This paper is your Python programming paper, practicing your coding will be the best thing you can do for revision.			
Topic 6: Problem solving with programming. The main focus of this paper is:			
understanding what algorithms are, what they are used for and how they work in relation to creating programs.			
understanding how to decompose and analyse problems.			
ability to read, write, refine and evaluate programs.			

Summer Examination			
Topic	1	2	3
<u>Paper 1</u>			
Topic 1: Computational thinking – understanding of what algorithms are, what they are used for and how they work; ability to follow, amend and write algorithms; ability to construct truth tables.			
Topic 2: Data – understanding of binary, data representation, data storage and compression.			
Topic 3: Computers – understanding of hardware and software components of computer systems and characteristics of programming languages.			
Topic 4: Networks – understanding of computer networks and network security.			
Topic 5: Issues and impact – awareness of emerging trends in computing technologies, and the impact of computing on individuals, society and the environment, including ethical, legal and ownership issues.			
<p><u>Paper 2 – Coding Paper on computer</u> This paper is your Python programming paper, practicing your coding will be the best thing you can do for revision.</p>			
Topic 6: Problem solving with programming. The main focus of this paper is:			
understanding what algorithms are, what they are used for and how they work in relation to creating programs.			
understanding how to decompose and analyse problems.			
ability to read, write, refine and evaluate programs.			

Health and Social Care

December Mocks			
Topic	1	2	3
N/A- Focus is on PSA 2			

Summer Examination			
Topic	1	2	3
Factors			
Physiological Indicators			
Lifestyle Indicators			
Person Centred Approach			
Actions to improve health			
Sources of support to improve health			

Music

December Mocks			
Topic	1	2	3
Rhythm and Metre			
Harmony and Tonality			
Melody			
Texture			
Instrument			
Melodic Dictation			
Piano Music			

Folk Music			
Minimalism			
Music for Gaming			
Baroque			
Latin			
Orchestral Music			
Mozart Clarinet Concerto			
Diamonds on the soles of her Shoes			

Summer Examination			
Topic	1	2	3
Rhythm and Metre			
Harmony and Tonality			
Melody			
Texture			
Instrument			
Melodic Dictation			
WCT 1650 – 1910			
Popular Music			
Traditional Music			
WCT 1910 –			

RE

December Mocks			
Topic	1	2	3
Christian beliefs			
Jewish beliefs			
Relationships and families			
Crime and Punishment			

Summer Examination			
Topic	1	2	3
Christianity – Beliefs and Practices			
Judaism – Beliefs and Practices			
Themes – Religion and Life			
Themes- Relationships and families			
Themes- Crime and Punishment			
Themes- Religion Peace and Conflict			

Sports Studies

December Mocks			
Topic	1	2	3
N/A			

Summer Examination			
Topic	1	2	3
Learning Outcome 1: Understand the issues which affect participation in sport			
Learning Outcome 2: Know about the role of sport in promoting values			
Learning Outcome 3: Understand the importance of hosting major sporting events			
Learning Outcome 4: Know about the role of national governing bodies in sport			

GCSE PE

December Mocks			
Topic	1	2	3
Component 01: Physical factors affecting Performance			
1.1 Applied anatomy and physiology			
1.2 Physical training			
Component 02: Socio-cultural issues and sports psychology			
2.1 Socio-cultural influences			
2.2 Sports psychology			

Summer Examination			
Topic	1	2	3
Component 01: Physical factors affecting Performance			
1.1 Applied anatomy and physiology			
1.2 Physical training			
Component 02: Socio-cultural issues and sports psychology			
2.1 Socio-cultural influences			
2.2 Sports psychology			
2.3 Health, fitness and well-being.			

Business Studies

December Mocks			
Topic	1	2	3
Starting a business & entrepreneurs			
Sole traders, Partnerships, Private & Public limited companies			
Market segmentation & Market research			
Aims & Objectives			
Revenue, costs, profit & cashflow			
The marketing mix			
Business location			
Business plans			
Stakeholders, law and the economy			
Technology & E-commerce			

Summer Examination			
Topic	1	2	3
Business Growth			
Globalisation, ethics & the environment			
Product life cycle & the design mix			
Job, batch & flow production			

Stock control (bar gate stock graphs)			
Procurement & Logistics			
Quality and quality control			
Interpreting financial data, NPM & GPM			
Organisational structures			
Recruitment, training & motivation			

General Revision Strategies

- Practice Papers
- Planning Answers
- Timed practice
- Mind-maps
- Flashcards
- GCSE Pod
- Quizzes

Useful Websites

- . GCSE Pod
- . BBC Bitesize

- YouTube (specific subject content)
- MathsWatch
- Internetgeography.net
- Revisionworld.com
- Coolgeography.co.uk
- Portal.focusonsound.com
- Businessed.co.uk
- Seneca
- Timelines TV
- Brainyquote.com
- Sentence builders
- Language-gym.com