

Year 11 Mock Information

Subject: Art, Craft and Design

Mock Exam Information

Time: 10 hours (5 hours to be completed during a full day and the rest to be completed in lesson time, in controlled conditions)

Marks: 80

Topics to Revise

The 10-hour mock exam will involve creating a final piece in response to your chosen theme from the mock exam paper.

To be fully prepared, you must ensure all the following is completed in your sketchbook before the mock:

- Statement of intent
- Mood board /own photographs linked to your theme
- Observational studies linked to your theme from your mood board / own photos
- At least 2 artist research and analysis responses
- Development work in response to your chosen artists, which should include range of colour, layout and material experiments
- A sustained piece of work in response to both artists
- A clear and well thought out final design plan
- Clear annotation throughout your prep work to support your ideas and developments

This mock contributes to your 60% coursework final grade, so it's essential you are fully prepared.

Please also make sure you have all necessary materials with you on the day of the mock.

Subject: GCSE Biology

Mock Exam Information 2025

Time: 105 minutes

Marks: 100

Topics to Revise

B1: Key Concepts in Biology

- Microscopes, including the cells and microscopes core practical investigation
- Plant, animal, and bacterial cells
- Specialised cells
- Enzyme function, enzyme action and factors affecting enzyme activity
- Osmosis and diffusion

B2: Cells and control

- Mitosis
- Growth in animals and plants
- Stem cells
- The nervous system
- The structure and function of the eye
- The structure and function of the brain
- Brain and spinal cord problems

B3: Genetics

- Sexual and asexual reproduction
- Meiosis
- DNA structure and DNA extraction investigation
- Protein synthesis and genetic variants
- The work of Gregor Mendel
- Alleles and inheritance
- Multiple and missing alleles
- Gene mutation
- Variation

B4: Natural selection and genetic modification

- Evidence for human evolution
- Evidence for Darwin's theory of natural selection
- Natural selection
- Classification
- Selective breeding
- Genetic engineering, including the genetic modification of insulin (higher tier only)
- Tissue culture
- Fertilisers and biological control

B5: Health, disease, and the development of medicine

- Defining health and disease
- Non-communicable diseases
- Spreading pathogens
- Virus life cycles
- Plant diseases and defences
- Physical and chemical barriers
- The immune system
- Antibiotics including the core practical investigation
- Monoclonal antibodies

Subject: Business Studies

Mock Exam Information

Time: 105 mins

Marks: 90

Topics to Revise

ALL of Theme 1:

- **1.1 Enterprise & entrepreneurship** (risk & reward, role of the entrepreneur)
- **1.2 Spotting a business opportunity** (market research & segmentation, competitive environment, customer needs)
- **1.3 Putting ideas into practice** (aims & objectives, revenue, costs, profits, cash & cashflow, sources of finance)
- **1.4 Making the business effective** (options for start ups, business location, marketing mix, business plans)
- **1.5 Understanding external influences on business** (stakeholders, technology, legislation, the economy, external influences)

Subject: GCSE Chemistry

Mock Exam Information 2025

Time: 105 minutes

Marks: 100

Topics to Revise

C1: Key Concepts in Chemistry

- Structure of the atom, atomic number and mass number
- Isotopes
- Elements and the periodic table
- Electronic configuration
- Ionic bonds and lattices
- Properties of ionic compounds
- Covalent bonds and properties of simple molecules.
- Allotropes of carbon
- Relative formula mass and empirical formula calculations
- Conservation of mass and reacting masses
- Moles, limiting reactants and stoichiometry (**Higher tier only**)

C6: Groups in the periodic table

- Group 1 alkali metals
- Group 7 halogens and halogen displacement reactions
- Group 0 noble gases

C7: Rates of reaction and energy changes

- Rates of reaction and factors affecting rates of reactions (Investigating reaction rates core practicals)
- Catalysts and activation energy
- Exothermic, endothermic reactions and energy
- Bond energy calculations (**Higher tier only**)

C8: Fuels and Earth science

- Hydrocarbons in crude oil and natural gas, fractional distillation of crude oil
- The alkane homologous series
- Complete and incomplete combustion
- Combustible fuel and pollution
- Cracking
- The early atmosphere, the changing atmosphere and atmosphere today
- Climate change

C9: Separate chemistry 2

- Alkanes, alkenes and reactions of alkanes and alkenes
- Ethanol production
- Alcohols (combustion of alcohols core practical)
- Carboxylic acids
- Addition polymerisation
- Condensation polymerisation
- Polymer properties, uses and problems with polymers
- Flame tests and photometry
- Test for positive ions and negative ions (core practical: Identifying ions)
- Choosing materials, composite materials and nanoparticles.

Subject: GCSE Combined Science

Mock Exam Information 2025

Time: 3 x 70-minute exams (1 Biology, 1 Chemistry, 1 Physics)

Marks: 60 marks per exam

Topics to Revise

Biology

B1: Key Concepts in Biology

- Microscopes, including the cells and microscopes core practical investigation
- Plant, animal, and bacterial cells
- Specialised cells
- Enzyme function, enzyme action and factors affecting enzyme activity
- Osmosis and diffusion

B2: Cells and control

- Mitosis
- Growth in animals and plants
- Stem cells
- The nervous system
- Brain and spinal cord problems

B3: Genetics

- Meiosis
- DNA structure and DNA extraction investigation
- Alleles and inheritance
- Gene mutation
- Variation

B4: Natural selection and genetic modification

- Evidence for human evolution
- Natural selection
- Classification
- Selective breeding
- Genetic engineering, including the genetic modification of insulin (**higher tier only**)

B5: Health, disease, and the development of medicine

- Defining health and disease
- Non-communicable diseases
- Spreading pathogens
- Physical and chemical barriers
- The immune system
- Antibiotics

Chemistry

- C1: Key Concepts in Chemistry
- Structure of the atom, atomic number and mass number
- Isotopes
- Elements and the periodic table
- Electronic configuration
- Ionic bonds and lattices
- Properties of ionic compounds
- Covalent bonds and properties of simple molecules.
- Allotropes of carbon
- Relative formula mass and empirical formula calculations

- Conservation of mass and reacting masses
- Moles, limiting reactants and stoichiometry (**Higher tier only**)

C6: Groups in the periodic table

- Group 1 alkali metals
- Group 7 halogens and halogen displacement reactions
- Group 0 noble gases

C7: Rates of reaction and energy changes

- Rates of reaction and factors affecting rates of reactions (Investigating reaction rates core practicals)
- Catalysts and activation energy
- Exothermic, endothermic reactions and energy
- Bond energy calculations (**Higher tier only**)

C8: Fuels and Earth science

- Hydrocarbons in crude oil and natural gas, fractional distillation of crude oil
- The alkane homologous series
- Complete and incomplete combustion
- Combustible fuel and pollution
- Cracking
- The early atmosphere, the changing atmosphere and atmosphere today
- Climate change

Physics

P1: Motion

- Vectors and scalars

P2: Motion and forces

- Resultant forces
- Newton's three laws of motion, including the investigating acceleration core practical
- Momentum (**Higher tier only**)

P3: Conservation of energy

- Energy efficiency
- GPE calculations

P4: Waves

- Describing waves
- Waves speeds, including the investigating waves core practical
- The uses of Electromagnetic waves
- Refraction, including the investigating refraction practical
- Waves crossing boundaries
- Earthquake S and P waves

P5: Electromagnetic spectrum

- Ray diagrams
- Colour
- Lenses

P6: Radioactivity

- Inside atoms
- Types of radiation and ionization and penetration abilities
- Radioactive decay and half-life
- How alpha, beta and gamma radiation decays from the nucleus.

Subject: Computer Science

Mock Exam Information

Time: 90 mins

Marks: 90

Topics to Revise

1. Computational thinking

- benefits of using decomposition, abstraction and subprograms
- working with algorithms, expressed as flowcharts, written descriptions and in program code
- determining the correct output of an algorithm for a given set of data
- using a trace table to perform a dry-run of an algorithm
- types of errors found in algorithms and programs
- correcting logical errors in algorithms
- how standard sorting and searching algorithms work
- evaluating the fitness for purpose of an algorithm constructing truth tables

2. Data

- why computers use binary
- converting between unsigned and signed denary and 8-bit binary numbers
- adding and shifting binary numbers, overflow
- converting between hexadecimal and binary, why hexadecimal is used
- binary representation of text, images and sound
- using binary multiples, and constructing expressions to calculate file sizes and data capacity requirements
- the need for and different methods of data compression

3. Computers

- the stored program concept, and the role of memory, the CPU and buses in the fetch-decode-execute cycle
- the role of secondary storage, and how data is stored on different types of media
- the purpose of an operating system and utility software

4. Networks

- reasons for connecting computers in a network, and types of networks
- how the internet is structured
- characteristics of wired and wireless connectivity
- network protocols and the TCP/IP stack
- common network topologies
- network security, and ways of identifying vulnerabilities and protecting networks

Subject: Drama

Mock Exam Information

Time: 1hr45minutes

Marks: 80

Topics to Revise

Section A: Multiple choice questions

Multiple choice question on staging and roles and responsibilities in theatre. This section of the exam should take students no longer than 5 minutes and is worth 4 marks. An example of the question they might get asked is:

1. Here are three images of different types of staging which image shows a thrust stage? Students would be required to tick the box of the correct picture.

Section B: Blood Brothers students should spend around 45 minutes on this section of the exam

Section B is split into 4 questions.

Question 1- this is worth 4 marks and would be asking a question about a design element. It would usually be a question on either the costume of a character from Blood brothers or designing the set for a particular scene in blood brothers.

Question 2- this is worth 8 marks and would be asking a question about the delivery of a specific line from a character in the play. They would have to explain how the actor uses their vocal and physical skills to deliver the spoken line. An example of this question would be: You are performing the role of Mrs Johnstone, describe how you would use your vocal and physical skills to perform the line below and explain the effects you want to create.

‘Because you’re the youngest Mickey. It used to happen to our Sammy when he was the youngest’.

Question 3- this is worth 12 marks and would be asking a question about a character’s relationship with another character in the **shaded part** of the extract and how they create a specific effect for the audience. An example of this question would be:

You are performing the role of Mrs Johnstone. Focus on the shaded part of the extract and explain how you might use the performance space and interact with the actor playing Mickey to show the audience Mrs Johnstones feelings.

Question 4- this is worth 20 marks and would be asking a question about the interpretation of one character in the chosen extract and the play as a whole. An example of this question would be:

You are performing the role of Mickey.

Describe how you would use your acting skills **to interpret Mickey’s character**.

Explain why your ideas are appropriate for:

- This extract
- The performance of your role in the play as a whole.

Section C: Billy Elliot

Section C of the exam is just one question based on the play Billy Elliot as this is the play the students have watched to review. This one question is worth 32 marks and students should be spending around 50 minutes writing their answer.

Students are expected to memorise moments from the play as they are not provided with a given extract to look at in the exam. They should be talking about the actor’s use of vocal and physical skills in their chosen moment and explaining how the actor creates the desired effect being asked of them in the question.

An example question from Section C of the exam would be:

Describe how two or more actors used their vocal and physical skills to **show a relationship between their characters**. Analyse and evaluate how effective they were in showing their characters' relationship to the audience. You could make reference too:

- Vocal skills, for example, pitch pace and tone of voice.
- Physical skills, for example, body language and facial expressions.
- A scene/section of the play and the play as a whole.

You need to ensure you start this review by saying which performance you watched e.g. We watched the streamed Live production of Billy Elliott from 2014 as performed at Londons Victoria Palace Theatre

Subject: DT

Mock Exam Information

Time: 2 hours

Marks: 100

Topics to Revise;

Softwoods

Hardwoods

Metals & Alloys

Primary Users

Stakeholders

Primary & Secondary Research

Sustainability

Polymers

Emerging Technologies

Papers & Boards

Life Cycle Assessment

Your mock exam will purely be on the elements of the specification we have studied so far which are listed above.

Subject: English Language

Mock Exam Information – English Language Paper 1

Time: 1h 45min

Marks: 80

Topics to Revise

- In this exam, you will explore fiction reading and descriptive or narrative writing
- You will be given a **question paper** and an **insert booklet**.
- The text could be from the 19th, 20th or 21st century.
- It counts as **50%** of your English Language GCSE
- The exam is in two sections:
 - **Section A: Reading:** you are assessed on your reading skills (**40 marks**)
 - **Section B: Writing:** you are assessed on the quality of your descriptive or narrative writing (**40 marks**)

To revise for the reading section of the exam you could:

- Use your knowledge organiser to practice the key requirements of each question including sentence starters.
- Use flashcards to memorise the structure of the exam, timings and useful sentence starters
- Work through past papers, timing yourself to replicate the exam conditions.

To revise for the writing section of the exam you could:

- Further develop your writing skills by practising your descriptive or narrative writing.
- Use your knowledge organiser to remind yourself how to plan a piece of writing
- Practise writing using ambitious vocabulary, sentence structures and a range of punctuation.

Where can you find exam revision resources?

- Ask your teacher! Your teacher has a variety of revision resources that they can offer you for your English Language Paper 1 mock exam.
- Form time intervention booklets have been given to all students. These are a useful resource to use to help you practice each element of the reading paper.
- There are some fantastic resources on our Google Drive on the school website. These have been updated to reflect the recent exam changes.

Subject: French

Mock Exam Information

Foundation:

Listening – 35 minutes, 40 marks

Reading – 45 minutes, 50 marks

Writing – 70 minutes, 50 marks

Higher:

Listening – 45 minutes, 50 marks

Reading – 60 minutes, 50 marks

Writing – 75 minutes, 50 marks

Topics to Revise:

Revise the topic areas covered so far:

Theme 1 (People & Lifestyles):

Identity & relationships with others

Healthy living & lifestyle

Education

Theme 2 (Popular Culture):

Free time activities

Customs, festivals & celebrations

Celebrity culture

Theme 3 (Communication & the World Around Us)

Media & technology

Reading & Listening:

- Use your vocab booklet to revise vocabulary from the topic areas above
- You can also use the Memrise online course to learn the vocabulary
- Complete practice reading and listening exam style questions (using homework booklets & also revision workbook)

Writing:

You need to be able to write accurately in three tenses on the topic areas listed above.

Revise:

- Verb tense formation (use your speaking & writing booklet pages 23-28)
- KEYS (speaking & writing booklet pages 31-34)
- Use the answers in your speaking and writing booklet to revise the sorts of things you could say on each topic area. Remember though that you do not know the writing questions in advance and they will not be exactly the same as the questions in your booklet.

Subject: Geography

Mock Exam Information

Time: 1 hour 30 mins

Marks: 88

Topics to Revise

Paper 1:

- Section A: The challenge of natural hazards (Tectonic Hazards, Weather Hazards, Climate Change)
- Section B: The Living World (Ecosystems, Tropical Rainforests, Hot Deserts)
- Section C: Physical landscapes in the UK (Rivers, Coasts)

Subject: NCFE Health & Fitness

Mock Exam Information

Time: 1hr

Marks: 60 marks

Topics to Revise:

1. Structure and function of body systems

- 1.1 Skeletal system
 - 1.1.1 Structure of the skeleton
 - 1.1.2 Functions of the skeletal system
 - 1.1.3 Types of bones
 - 1.1.4 Types of joints
 - 1.1.5 Joint actions
 - 1.1.6 Structure of a synovial joint
 - 1.1.7 Structure of the spine
 - 1.1.8 Posture
- 1.2 Muscular system
 - 1.2.1 Types of muscle
 - 1.2.2 Structure of the muscular system
 - 1.2.3 Muscle movement
 - 1.2.4 Muscle contractions
 - 1.2.5 Muscle fibre types
 - 1.2.6 Performance of muscle fibres
- 1.3 Respiratory system
 - 1.3.1 Structure of the respiratory system
 - 1.3.2 Functions of the respiratory system
 - 1.3.3 Diffusion and gaseous exchange
 - 1.3.4 Respiratory measurements
 - 1.3.5 Respiratory changes
- 1.4 Cardiovascular system
 - 1.4.1 Structure and function of the blood vessels
 - 1.4.2 Blood redistribution
 - 1.4.3 Structure of the heart
 - 1.4.4 The cardiac cycle
 - 1.4.5 Cardiovascular measurements
 - 1.4.6 Blood pressure
- 1.5 Energy systems

2. Effects of health and fitness activities on the body

- 2.1 Effects of health and fitness activities on the body
 - 2.1.1 Short-term effects of health and fitness activities (during and/or up to 36 hours after)
 - 2.1.2 Long-term effects of health and fitness activities (over 36 hours and up to months after)

3. Health and fitness and the components of fitness

- 3.1 Understanding health and fitness
- 3.2 Components of fitness
 - 3.2.1 Health-related fitness
 - 3.2.2 Skill-related fitness

4. Principles of training

- 4.1 Principles of training
 - 4.1.1 Understanding the principles of training
 - 4.1.2 Principles of overload

5. Testing and developing components of fitness

- 5.1 Fitness testing
 - 5.1.1 Health-related fitness tests
 - 5.1.2 Skill-related fitness tests
 - 5.1.3 Using data
 - 5.1.4 Validity and reliability
- 5.2 Training methods
- 5.3 Optimising a health and fitness programme
 - 5.3.1 Heart rate training zones
 - 5.3.2 Repetitions and sets

6. Impact of lifestyle on health and fitness

- 6.1 Lifestyle factors
 - 6.1.1 Activity levels
 - 6.1.2 Diet
 - 6.1.3 Rest and recovery
 - 6.1.4 Other factors

7. Applying health and fitness analysis and setting goals

- 7.1 Health and fitness analysis and goal setting
 - 7.1.1 Health and fitness analysis tools
 - 7.1.2 Collecting, using, analysing and evaluating data
 - 7.1.3 Goal setting

8. Structure of a health and fitness programme and how to prepare safely

- 8.1 The structure of a health and fitness training programme
 - 8.1.1 Components of a health and fitness programme
 - 8.1.2 Health and safety
 - 8.1.3 The session plan
 - 8.1.4 Warm-up/cool-down
 - 8.1.5 Main activity section
 - 8.1.6 Reviewing the activity session
- 8.2 Timescales and goal setting

Subject: History**Mock Exam Information**

Time: 2hrs (1hr per paper)

Marks: 97 marks

Paper 1 – Germany in Transition - 1 hour in length

Paper 2 – Changes in Crime and Punishment c500-present day – 1 hour in length

Marks:

Paper 1 = 53 marks

Paper 2 = 44 marks

Subject: Hospitality and Catering**Mock Exam Information**

Time: 1 hour 20 minutes

Marks: 80

Topics to Revise:

- Structure of the kitchen brigade
- Food service systems
- Commercial and non-commercial establishments
- Factors effecting the success of a H&C establishment
- Health and safety at work act
- COSHH
- Food Poisoning
- Environmental Health Officers
- Job roles and requirements
- Food labelling
- Rating and reviews

Subject: Maths

Mock Exam Information

Time: 1hr 30 mins (1 x Calculator Paper, 1 x Non-Calculator Paper)

Marks: 100

Topics to Revise

Prioritise revision of topics you have studied in class. This is where we expect you to pick up marks. You will receive an A4 copy of the relevant topic sheet in lesson.

Foundation Tier

Angle Facts - Video 35, 30, 34, 39
Types of Angle - Video 38
Angles in Parallel Lines - Video 25
Angles in a Triangle - Video 37
Angles in a Quadrilateral - Video 33
Angles in Polygons - Video 32
Bearings - Videos 26, 27
Scales & Maps - Video 283
Perimeter - Video 241
Area of Rectangles/Triangles - Videos 45, 49
Area of a Trapezium - Video 48
Units - Videos 347, 349
Sensible Estimates - Video 285
Line Symmetry - Video 316
Rotational Symmetry - Video 317
Constructions - Video 72, 78, 83
Loci - Videos 75, 76, 77
Faces, Edges, Vertices - Videos 5, 3
Nets - Video 4
Views and Elevations - Video 354
Time Calculations - Video 322
Timetables - Video 320
Distance Charts - Video 318
Speed, Distance, Time - Video 299
Travel Graphs - Video 171
Density - Video 384
Pressure - Video 385
Translations - Video 325, 326
Reflections - Videos 272, 273
Rotations - Video 275
Enlargements - Videos 104, 105, 107
Parts of the Circle - Video 61
Circumference - Video 60, 243
Area of a Circle - Video 59, 47
Arc Length - Video 58
Area of a Sector - Video 46
Volume of a Cylinder - Video 357
Pythagoras - Video 257
Trigonometry - Videos 329, 330, 331
Exact Trig Values - Video 341
Similar Shapes (Sides) - Video 292
Congruent Triangles - Video 67
Volume of a Cuboid/Prism - Video 355, 356
Volume of a Sphere/Cone - Video 359, 361
Surface Area - Video 310
Surface area of Sphere/Cone - Videos 313, 314
Vectors - Video 353a, 353

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GCSE Foundation Tier Checklist

Multiplication - Video 199, 200
Division - Video 98
Addition - Video 6
Subtraction - Video 304
Rounding - Video 276, 277a, 277b, 278, 280
Estimation - Video 215
Order of Operations - Video 211
Ordering Decimals - Video 95
Arithmetic with Decimals - Videos 90, 91, 92, 93, 94
Multiples and Factors - Videos 220, 216
Prime Numbers - Video 225
Square Numbers and Square Roots - Videos 226, 228
Cube Numbers and Cube Roots - Videos 212, 214
Product of Primes - Video 223
LCM/HCF - Videos 218, 219, 224
Indices - Videos 172, 174
Negative Indices - Video 175
Standard Form - Video 300, 302, 303
Fractions of Amounts - Video 137
Adding Fractions - Video 133
Multiplying Fractions - Video 142
Dividing Fractions - Video 134
Reciprocals - Video 145
Fractions, Decimals, Percentages - Videos 121 to 129
Expressing as Fraction or % - Videos 136, 237
Percentages of Amounts - Videos 234, 235, 238
Percentage Change - Video 233
Simple Interest - Video 236a
Compound Interest - Video 236
Reverse Percentages - Video 240
Ratio - Videos 269, 270, 271
Currency - Video 214a
Recipes - Video 256
Negative Numbers - Videos 205-209
Place Value - Video 222, 222a
Error Intervals - Video 377
Money - Video 400
Best Buys - Video 210
Proportion - Videos 255a, 254
Use of a Calculator - Video 352



Tally Charts - Video 321
Frequency Trees - Video 376
Two-way Tables - Video 319
Pictograms - Videos 161, 162
Bar Charts - Videos 147, 148
Line Graphs - Video 160
Pie Charts - Video 163, 164
Probability - Videos 245, 246, 248
Relative Frequency - Video 248
Listing Outcomes - Video 253
Scatter Graphs - Videos 165 to 168
Averages & Range - Videos 56, 50, 53, 57
Mode: Frequency Table - Video 56a
Median: Frequency Table - Video 51
Combined Mean - Video 53a
Estimated Mean - Video 55
Venn Diagrams - Video 380
Tree Diagrams - Video 252
Reading Tables - Video 387
Samples - Video 281a
Coordinates - Video 84
Function Machine - Video 386
Writing Expressions - Video 16
Collecting Like Terms - Video 9
Multiplying & Dividing Terms - Videos 18, 11
Laws of Indices - Video 174
Sequences - Videos 286, 287, 290, 287a
Geometric Progressions - Video 375
The nth Term - Video 288
Expanding Brackets - Videos 13, 14
Factorising - Video 117
Factorising Quadratics - Videos 118, 120
Solving Equations - Video 110, 113, 266
Forming Equations - Videos 114, 115
Inequalities - Videos 177, 178, 179
Conversion Graphs - Video 151
Drawing Linear Graphs - Video 186
 $y = mx + c$ - Video 191
Gradient - Video 189
Real Life Graphs - Video 171a
Parallel graphs - Video 196
Substitution - Video 20
Changing the Subject - Video 7
Simultaneous Equations - Videos 295, 297
Quadratic Graphs - Video 264
Cubic Graphs - Video 344
Reciprocal Graphs - Video 346

Higher Tier

Adding Fractions - Video 133
Multiplying Fractions - Video 142
Dividing Fractions - Video 134
Reciprocal - Video 145
Decimals - Video 90, 91, 92, 93, 94
Use of a Calculator - Video 352
Estimation - Video 215
Best Buys - Video 210
Currency - Video 214a
Conversion Graphs - Video 151, 152
LCM/HCF - Videos 218, 219
Product of Primes - Videos 223, 224
Indices - Videos 172, 174
Indices (fractional/negative) - Videos 173, 175
Standard Form - Videos 300, 301, 302, 303
Percentages of Amounts - Videos 234, 235, 238
Percentage change - Video 233
Simple Interest - Video 236a
Compound Interest - Video 236
Reverse Percentages - Video 240
Recurring Decimals to Fractions - Video 96
Ratio - Videos 270, 271, 271a, 271b, 271c
Direct Proportion - Video 254
Inverse Proportion - Video 295
Proportional Graphs - Video 255b
Proportion (application) - Video 255c
Limits of Accuracy - Videos 183, 184
Surd - Videos 305, 306, 307, 308
Product Rule for Counting - Video 383
Error Intervals - Video 377, 280
Collecting Like Terms - Video 9
Expanding Brackets - Videos 13, 14, 15
Factorising - Video 117
Factorising Quadratics - Videos 118, 119, 120, 119a
Algebraic Fractions - Videos 21, 22, 23, 24
Sequences (nth term) - Video 288, 289
nth term (quadratics) - Video 388
Substitution - Video 20
Equations - Videos 110, 113, 114, 115
Changing the Subject - Videos 7, 8
Inequalities - Videos 177, 178, 179
Inequalities (Regions) - Video 182
Quadratic Inequalities - Video 378
Linear Graphs - Videos 191, 186, 189, 194
Midpoint of a Line - Video 198
Distance between 2 points - Video 185
Real-life Linear Graphs - Video 171a
Parallel or Perpendicular Lines - Videos 196, 197
Simultaneous Equations - Video 295
Non-linear Simultaneous Equations - Video 298
Graphical Simultaneous Equations - Video 297

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GCSE Higher Tier Checklist

Angles in Parallel Lines - Video 25, 39
Bearings - Video 26, 27
Angles in Polygons - Video 32
Constructions - Video 78, 72, 79, 80, 70
Loci - Videos 75, 76, 77
Views - Video 354
Area of a Trapezium - Video 48
Circumference - Video 60
Area of a Circle - Video 40
Arc Length - Video 58
Area of a Sector - Video 48
Volume of a Cylinder - Video 357
Pythagoras - Video 257, 259
Trigonometry - Videos 329, 330, 331
3D Trig and Pythagoras - Videos 259, 332
Exact Trig Values - Video 341
Volume of a Prism - Video 356
Volume of Cone/Pyramid/Sphere - Videos 359-361
Volume of a Frustum - Video 360a
Surface Area of a Prism - Video 311
Surface Area of Cone/Sphere - Videos 314, 313
Metric Units (area/volume) - Videos 350, 351
Translations - Video 325
Reflections - Video 272
Rotations - Video 275
Enlargements - Videos 104, 106, 107, 108
Similar Shapes - Videos 292, 293a, 293b
Circle Theorems - Videos 64, 65
Sine Rule - Video 333
Cosine Rule - Videos 335, 336
1/2abSinC - Video 337
Vectors - Video 353
Column Vectors - Video 353a
Travel Graphs - Video 171
Speed, Distance, Time - Video 299
Density - Video 384
Pressure - Video 385
Geometric Proof - Video 366
Congruent Triangles - Video 67
Invariant Points - Video 392

Frequency Trees - Video 376
Two-way Tables - Video 319
Pie Charts - Videos 163, 164
Scatter Graphs - Videos 165, 166
Histograms - Video 157, 158, 159
Cumulative Frequency - Videos 153, 154
Box Plots - Video 149
Independent Events - Video 249
Estimated Mean - Video 55
Combined Mean - Video 53a
Median (frequency table) - Videos 51, 52
Modal class (frequency table) - Video 56a
Probability - Video 250
Relative frequency - Video 248
Samples - Video 281a
Tree Diagrams - Video 252
Conditional Probability - Video 247
Venn Diagrams - Video 380
Equation of a Circle - Video 12
Equation of a tangent - Video 372
Instantaneous rates of change - Video 390a
Average rates of change - Video 390b
Area under a curve - Video 389
Composite Functions - Video 370
Inverse Functions - Video 369
Quadratic Graphs - Video 264
Solving Quadratics Graphically - Videos 367c, 367d
Sketching Quadratics - Video 265
Trigonometric Graphs - Videos 338, 339
Cubic Graphs - Video 344
Reciprocal Graphs - Video 346
Exponential Graphs - Video 345
Geometric Sequences - Video 375
Algebraic Proof - Video 365
Quadratic Formula - Video 267
Completing the Square - Video 10, 371
Transformations of Graphs - Video 323, 324
Identities - Video 16a
Iteration - Video 373, 373a, 373b



Subject: Music

Mock Exam Information

Time: 1 hour 45 minutes

Marks: 80 for Listening Paper

30 for performance (NEA), 30 for composition (NEA)

Topics to Revise

Written Exam:

AOS 1: Instrumental Music 1700-1820

Bach – Brandenburg Concerto No.5 & Beethoven – Sonata Pathétique

AOS 2: Vocal Music

Purcell – Music for a While & Queen – Killer Queen

AOS 3: Music for Stage and Screen

Schwartz – Wicked Defying Gravity & Williams – Star Wars episode IV Main Title/
rebel blockade

AOS 4: Fusions

Afro Celt Sound System – Release & Esperanza Spalding – Samba Em Preludio

Music Dictation: rhythm and melody

Unfamiliar Listening: General Music theory keywords and knowledge of standard features of a range of different musical styles

NEA requirement also to complete for mock grade:

-1 solo performance recording by December 18th

- 1 completed free composition with score / write- up by Tuesday 6th January

Subject: Photography

Mock Exam Information

Time: 10 hours (5 hours to be completed during a full day and the rest to be completed in lesson time, in controlled conditions)

Marks: 80

Topics to Revise

The 10-hour mock exam will involve creating a final piece in response to your chosen theme from the mock exam paper. To be fully prepared, you must ensure all the following is completed in your sketchbook before the mock:

- Statement of intent
- Mind map to explore and generate ideas
- 3 Mood board /own photographs linked to your theme linked to your mind map ideas
- Initial photoshoot in response to your theme
- At least 2 photographer research responses and analysis responses
- Development work in response to your chosen photographer, with at least 10 manual or digital edits
- A sustained piece of work in response to both photographers
- A clear and well thought out final design plan
- Clear annotation throughout your prep work to support your ideas and developments

This mock contributes to your 60% coursework final grade, so it's essential you are fully prepared.

Please also make sure you have all necessary materials with you on the day of the mock.

Subject: GCSE Physics

Mock Exam Information 2025

Time: 105 minutes

Marks: 100

Topics to Revise

P1: Motion

- Vectors and scalars
- Distance/time graphs
- Acceleration and velocity time graphs

P2: Motion and forces

- Resultant forces
- Newton's three laws of motion, including the investigating acceleration core practical
- Mass and weight
- Momentum **(Higher tier only)**

P3: Conservation of energy

- Energy efficiency
- GPE calculations

P4: Waves

- Describing waves
- Waves speeds, including the investigating waves core practical
- Reflection
- Refraction, including the investigating refraction practical
- Waves crossing boundaries
- Earthquake S and P waves
- Ears and hearing **(Higher tier only)**
- Infrasound and ultrasound **(Higher tier only)**

P5: Electromagnetic spectrum

- Ray diagrams
- Colour
- Lenses

P6: Radioactivity

- Inside atoms
- Types of radiation and ionization and penetration abilities
- Radioactive decay and half-life
- How Alpha, beta and gamma radiation decays.
- Nuclear fission of uranium
- Nuclear fusion inc $E = mc^2$ **(Higher tier only)**

P7: Astronomy

- The Solar System
- Gravity and orbits
- Life cycle of stars
- Red-shift and origins of the Universe **(Higher tier only)**

Subject: Religious Studies GCSE

Mock Exam Information

Time: 1 x 1-hour 45 min exam on Christian and Muslim Beliefs and Practices

Plus, Theme E (Crime and Punishment) and Theme C (Existence of God and Revelation) to be completed in lesson time

Marks: 51 marks on each paper, totalling 153 marks (Themes B and C)

Topics to Revise

Full Course GCSE

Component 1: Christian and Muslim Beliefs and Practices

Christian Beliefs:

- Jesus' crucifixion
- Christian beliefs about heaven and hell
- Beliefs about the holy spirit
- The role of Christ in salvation
- The nature of God and the problem of evil and suffering

Christian Practices:

- Evangelism
- Baptism
- Forms of worship
- Pilgrimage
- The role of the Church – in the local community AND the worldwide community

Muslim Beliefs:

- The Imamate
- Prophets: Adam and Muhammad
- Predestination
- 5 roots of usual al-din and 6 articles of faith

Muslim Practices:

- Id-ul-fitr
- Ramadan and the Night of Power
- Almsgiving (zakat)
- Wudu and preparation for prayer
- The 5 pillars of Islam and other important Muslim duties

Component 2: Thematic Studies (to be completed in class)

Theme C: Existence of God and Revelation

- Nature of God – God as immanent and transcendent
- Religious and non-religious arguments about miracles
- The First Cause argument
- General and special revelation

Theme E: Crime and Punishment

- Aims of punishment
- Attitudes towards murder
- Religious attitudes towards corporal punishment
- Forgiveness towards those who break the law
- Reasons for crime

Subject: Textiles

Mock Exam Information

Time: 5 hours

Marks: 80

Topics to Revise

The 5-hour mock exam will involve creating a final piece in response to your Personal Investigation project.

To be fully prepared, you must ensure the following is completed in your sketchbook before the mock:

- Artist research and analysis
- A range of experiments and developments
- A clear and well-thought-out final design plan
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This mock contributes to your 60% coursework final grade, so it's essential you are fully prepared.

Please also make sure you have all necessary materials with you on the day of the mock.