

Mark Rutherford School



**YEAR 11
MOCK EXAM REVISION
BOOKLET**

This booklet is designed to help you prepare effectively for your Year 11 mock exams. It contains a list of topics for each subject that you need to revise. Use this as a checklist to ensure you cover all areas before your exams. Remember to prioritise topics you find most challenging and use your class notes, revision guides, and online resources to support your learning. Completing past papers and practicing exam-style questions will also help you build confidence and improve your performance.

Biology

- B1 – Cell Biology
- B2 – Organisation
- B3 – Infection and Response
- B4 – Bioenergetics
- B5 – Homeostasis and Response (Up to and including the reflex required practical)
- B7 – Ecology

Chemistry

- C1 – Atom, Structure and the Periodic Table
- C2 – Bonding, Structure and the Properties of Matter
- C3 – Quantitative Chemistry
- C4 – Chemical Changes
- C5 – Energy Changes
- C6 – The Rate and Extent of Chemical Change
- C7 – Organic Chemistry

Physics

- P1 – Energy
- P2 – Electricity
- P3 – Particle Model of Matter
- P4 – Atomic Structure
- P5 – Forces (Up to and including Newton's 2nd Law required practical)
- P7 – Magnetism and Electromagnetism

English Language

Paper 1 – Explorations in Creative Reading and Writing

- Reading fiction
- Writing Fiction

English Literature

Paper 2 – Modern Texts and Poetry

- An Inspector Calls
- Power and Conflict Anthology
- Unseen Poetry

Computer Science Paper 1

- Binary to Denary conversion
- Binary addition
- Network Topologies
- MAC and IP addresses
- Legal and ethical effects of computer use
- Sound sampling
- CPU
- Internal storage, RAM and ROM

Computer Science Paper 2

- Flowcharts
- Binary Search algorithm
- Programming languages
- Program maintainability
- Data types
- Trace tables
- SQL

History

- **Paper 1** will be Crime and Punishment (inc Whitechapel)
- **Paper 2** will be Weimar and Nazi Germany

Geography Paper 1

- UK Landscapes – processes, landforms, human use of the South Downs
- Coastal landscapes – processes, landforms, coastal management
- Ecosystems – UK ecosystems, global ecosystems, Tropical Rainforests, Deciduous Woodlands

Geography Paper 2

- Changing Cities – Urbanisation, Birmingham case study, Mexico City case study
- Global Development – Development indicators, UK & Global uneven development (causes, impacts, management), India case study
- Resource management – Classifying resources, UK resources, Global resources, global water supply (issues and management), Las Vegas case study, China case study

Drama

Component 3:

Section A – An Inspector Calls

- Revise by reading the text
- Learning the different rehearsal techniques and staging types.
- Make sure you have a clear design and staging concept for the entire play and the characters within it.

Section B – Live Theatre

- Revise notes on theatre performances you have watched.
- Learn the suggested answer structure.

Design and Technology

- Scales of production
- Jigs and moulds
- Orthographic Drawing
- Calculations
- Standard Components
- Product Analysis
- Innovation in Design

Religious Studies

Component 1

- Issues of Relationships
- Issues of Life and Death
- Issues of Good and Evil
- Issues of Human Rights

Food

- Nutrients: Macronutrients and Micronutrients, functions and sources
- Nutritional Needs and Health: life stages, special diets, impact on health
- Cooking of Food and Heat Transfer: methods, heat transfer, effect on nutrients
- Food Safety: storage, handling, cross-contamination, temperature control
- Food Choice: cost, culture, health, lifestyle, marketing, labelling
- Food Provenance: origins, sustainability, environmental impact, fair trade

PE

Component 1 – Fitness & Body Systems

- Applied Anatomy & Physiology
- Movement Analysis
- Physical Training

Media Studies

Component 2 - Understanding Media Forms and Products

Section A: Television – Friends and Modern Family

- Media language or representation based on an extract
- Media industries, audiences or media contexts

Section B: Music (music videos and online media)

- Taylor Swift
- TLC Waterfalls
- Stormzy
- Media language or representation
- Media industries, audiences or media contexts

Maths

- Specific topic sheets have been given to students. Ensure you are confident in;
- Number
- Algebra
- Ratio and Proportion
- Geometry
- Probability.

Music

- Concerto Through Time
- Rhythms of the World
- Film Music
- Popular Music

Dance

- Six Anthology Works
- Physical Skills
- Technical Skills
- Expressive Skills