

Mock exams



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Academy

27th September – 8th October

English

- English Language Paper 1
- English Literature Paper 2 - An Inspector Calls and Unseen Poetry



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Maths



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Foundation

- Pythagoras
- Fractions, decimals and percentages
- Solving equations
- Area and perimeter
- Averages
- Ratio and proportion
- Angles in parallel lines
- Volume of prisms and cylinders
- Probability
- Straight line graphs

Higher

- Pythagoras
- SOHCAHTOA
- Ratio problem solving
- Indices
- Parallel and perpendicular lines
- Circle theorems
- Surds
- Algebraic fractions
- Rearranging formula
- Simultaneous equations
- Sine/cosine rule

Biology

- Cell biology
- Organisation digestive
- System, lungs, heart
- Infection and response
- Bioenergetics
- Respiration
- Photosynthesis



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Chemistry

- Atomic structure
- Bonding
- How to use the periodic table
- Rates of reaction and factors that effect this
- Organic chemistry (hydrocarbons, crude oil)
- Chemical analysis
- Chemistry of the atmosphere
- Water purification



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Physics

- Energy and energy source
- Electricity and the national grid
- Atomic structure and radioactivity



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History

- Crime and Punishment
- Saxons and Normans



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Geography

- Rivers
- Glaciation
- Urban Issues
- Hazards



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Religious Education



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- Muslim Beliefs
- Muslim Practices
- Peace and Conflict
- Crime and Punishment

French



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Theme 1: Identity and culture

- Topic 1: Me, my family and friends
- Topic 2: Technology in everyday life
- Topic 3: Free-time activities
- Topic 4: Customs and festivals in French-speaking countries/communities

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

- Topic 1: Home, town, neighbourhood and region
- Topic 2: Social issues
- Topic 3: Global issues
- 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

Inspiring learning, unlocking potential, achieving success

Spanish



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Theme 1: Identity and culture

- Topic 1: Me, my family and friends
- Topic 2: Technology in everyday life
- Topic 3: Free-time activities
- 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
- Topic 3: Global issues
- 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

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Music

- Western classical tradition to 1910
- Popular music
- Traditional music
- Classical tradition after 1910
- MAD TSHIRT
- Basic stave notation
- Chord numbering
- Intervals



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Performance piece to be confirmed with instrumental teacher and recorded in lesson time

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Hair & Beauty

- Industries and treatments
- Hair and Makeup styles of the ancient Egyptians, ancient Greeks, ancient Japanese, 1920's, 1940's 1960's, 1980's, 1990's and today's trends
- Acids and Alkalis – effects on skin and hair
- Uses and functions of cosmetic products including allergic reactions
- Hair / Skin / Nail anatomy – diagrams and functions
- Testing products – Episkin
- Why businesses use logos / websites / displays (Marketing)
- Target audiences
- Trades Description Act / Health and Safety Act



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Hospitality and Catering



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- The Hospitality and Catering Industry
- Health and safety in hospitality and catering establishments
- How food can cause ill health (food poisoning, allergies and intolerance)
- How hospitality and catering establishments can meet the needs of customers

BTEC Sport

- Methods of training
- Components of fitness
- Principles of training
- Practical exam



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Sport Science

- Training programmes
- Programme planning
- Principles of training
- Fitness training



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Computer Science



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Paper 1:

- The purpose of the CPU
- The fetch-execute cycle
- Common CPU components and their function
- How common characteristics of CPUs affect their performance - Clock speed / Cache size /Number of cores
- The purpose and characteristics of embedded systems
- The need for primary storage
- Common types of storage: Optical/ Magnetic /Solid state & their characteristics / Capacity /Speed /Portability /Durability /Reliability /Cost
- The units of data storage
- How to convert positive denary whole numbers to binary numbers, convert to Hex & add 2 binary numbers
- Characters sets - types and how bit size correlates to number of characters available
- Types of network: LAN (Local Area Network)
- WAN (Wide Area Network)
- Networking hardware & what effects performance

Paper 2:

- Abstraction / Decomposition / Algorithmic thinking
- Identify the inputs, processes, and outputs for a problem Create, interpret, correct, complete, and refine algorithms using Pseudocode / Flowcharts
- Programming constructs variables, selection, loops, functions and data type
- Boolean logic gates

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