

Year 10 Mock Exams commencing Monday 5th March

Topics & Duration

History: 1 hour

Conflict and Tension 1894 – 1918

Part One: The causes of the First World War

- The Alliance System
- Anglo-German rivalry
- Outbreak of war

Part two: The First World War: stalemate

- The Schlieffen Plan
- The Western Front
- The Wider war

Part three: Ending the war

- Changes in the Allied Forces
- Military developments
- Germany surrenders

Geography: 1 hour

- Ecosystems
- Rainforests
- Cold Environments
- Coasts

Graphics: 1 Hour

- Topics students should focus their revision around include:
- Symmetry
- Scale
- Single and Two Point Perspective
- Rendering & Shading
- Thick and Thin Lines Techniques
- The work of Robert Sabuda (see revision guide)
- Manufacturing processes of kinetic movements/pop-ups

Product Design duration: 1 Hour

- Your exam will take place the first week back after half term
- The exam will be split into two sections (exactly as the 'real exam')

SECTION 1 – The Design Question

- You are required to study the Memphis Design Movement and make yourself very familiar with products designed in this style.

SECTION 2 – Knowledge and Understanding

- Product evolution and environmental issues.
- Manufacturing small products. Tools we might use in the workshop to do so, and types/scales of production.
- Health and safety implications when manufacturing/Safety in the workshop.

Music listening exam: 1 hour

Revise all work completed so far in the following topics:

- Film Music
- Popular Music
- Riffs
- Ostinati
- Loops
- Texture
- Sequence

Hospitality and Catering: 1 hour

- Membership clubs
- Accommodation businesses
- Scale/size of businesses
- Hospitality events.
- Travel agencies
- Types of suppliers to restaurants
- Brand standards
- Maintaining hygiene standards
- Environmental issues
- Business profits
- Star ratings
- Recruitment of staff
- Customer service
- Types of Pub ownership
- Customer feedback

Health and Social care: 1 hour

- 6 life stages
- 4 areas of human development – Physical, Intellectual, Social, Emotional - PIES
- Gross and fine motor skills
- Employment and promotion at work
- Self-image
- Self esteem
- Expected life events – what they are and how they affect the development of people - PIES
- Unexpected life events - what they are and how they affect the development of people – PIES

GCSE PE: 1 hour

Skeletal system, joints & movement, muscular system, levers, plane and axis, cardiovascular system, maximal & sub-maximal exercise, effects of exercise on c-v & respiratory system, breathing process, gaseous exchange, lung volumes, aerobic/anaerobic exercise.

AQA GCSE Business 1 Hour

- Products and Services
- Legal Structures
- Marketing Mix
- Market Research
- Sources of finance
- Reasons why people start businesses
- Stakeholders
- Motivational Techniques
- Technology in Business

Applied General IT 1 Hour

- Database basics
- Project Lifecycle
- Security Threats
- SMART Targets
- SWOT Analysis

OCR GCSE Computer Science 1 Hour

- ❖ CPU – Cache, Cores, Speed, Fetch/Execute Cycle
- ❖ RAM & ROM
- ❖ Storage Devices
- ❖ Binary Conversions
- ❖ Logic Gates
- ❖ Computing Ethics and Legislation
- ❖ Networks – Hardware, Topologies, Threats, Client Server/Peer2Peer

English Language Writing: 1 Hour

You will be asked to:

Write an article (30 minutes)

Write a formal letter (30 minutes)

Sample exam questions

The real questions will be different but they will have the same format.

- (1)** Your school is considering whether to ban detentions as they are not popular with students or parents.

Write a formal letter persuading the board of governors to ban detentions.

- (2)** The government believes that we, as a country, need to be much better than we currently are at learning and speaking foreign languages.

Write an article for a newspaper, as a young person looking to the future, giving your views on learning and speaking foreign languages

Science

Biology: 1 hour

- Cells and microscopes
- Enzymes and digestion
- Heart and Lungs

Chemistry: 1 hour

- Atomic Structure
- Periodic Table
- Bonding
- Structure
- Properties of Matter
- Quantitative
- Acids and their reactions
- Metal Extraction
- Electrolysis

Physics: 1 hour

- Energy transfers (kinetic and GP)
- Specific heat capacity (including practical)
- Waves
- Insulation and heat transfer
- Forces (including Hooke's law)
- Elastic potential

Maths Foundation 3 x 30mins = 1.5 hours total

- Fractions, Decimals & Percentages
- 4 operations (add, subtract etc...)
- Properties of 3d shapes
- Coordinates, midpoints and equations of lines
- Probability including Listing Outcomes, Expectation, Two way tables
- Factors & Multiples
- Ratio & Proportion including Scale drawing
- Rounding
- Negatives numbers
- Drawing/Interpreting Real Life graphs
- Speed, Distance, Time
- Transformations
- Changing between metric units
- Drawing 2d shapes
- Area of compound shapes

Maths Higher 3 x 30 mins = 1.5 hours total

- Expand and Simplify linear or quadratics expressions
- Factorise expressions
- Factorise quadratics
- Area including circles or part circles
- Proportion including direct/inverse proportion
- Pythagoras' Theorem
- Density, Mass Volume
- Probability including Venn Diagrams and listing outcomes
- Solving linear or quadratic equations
- Transformations
- Using your calculator efficiently with indices
- Ratio
- Plans and Elevations
- Changing the subject of the formula
- Percentages including depreciation
- Rounding to Significant Figures
- Solving simultaneous equations
- Arc Length
- Trigonometry

MFL: 1 hour

Topics and grammar to revise

French:

- Family and Friends/ Relationships
- New Technologies
- Celebrations and Festivals
- Avoir and Etre
- Reflexive verbs
- Adjectives
- Present, perfect and immediate future tense
- Irregular verbs
- Verbs for opinions
- Possessive adjectives, comparatives, direct and indirect pronouns, interrogative adjectives, adverbs of frequency

Spanish:

- Family and Friends/ Relationships
- New Technologies
- Celebrations and Festivals
- Present tense of irregular verbs (Tener, ser, estar)
- Future tense
- Use of possessive adjectives
- Use of y and que
- Comparisons
- Perfect tense of regular and irregular verbs
- Use of gustar and encantar
- Gustar + plural nouns
- Reflexive verbs in the preterit tense

For more detailed revision visit www.alleynesacademy.co.uk under Students tab, then Year 10 Mock Examination

Also students can use the remote-log in at the top of the page and access the school network. On the W drive there are many more resources that can be used for revision.

Username: alleynesesc\J.Bloggs

Password: student's normal password to get onto the network