

Mock Exam Revision Guide November 2018

Art

No mock exam

Biology

Year 12 - all classes:

1.1 Biological Compounds

1.2 Cell Structure & Organisation

1.3 Cell Membrane and Transport (Part covered up to end of Nov)

1.4 Enzymes (Part covered up to the end of Nov)

1.5 Nucleic Acids

1.6 Cell Division

Year 13 – all classes:

3.1 Importance of ATP

3.2 Photosynthesis

3.3 Respiration

3.5 Population size & Ecosystems

3.7 Homeostasis and the kidney

4.3 Inheritance

4.5 Application of Reproduction and Genetics

Business

Year 12

All of unit 1 topics, refer to checklist for a detailed outline of what you need to revise:

- Enterprise (Stakeholder are included in this)
- Business Plans
- Markets

- Market Research
- Business Ownership Business
- Location
- Business Finance
- Business Costs & Revenue
- Break-Even

Year 13

All of unit 3 topics, refer to checklist for a detailed outline of what you need to revise:

- Strategy and Implementation
- Decision Making Models
- Investment Appraisal
- Data Analysis
- Market Analysis
- Sales Forecasting Analysing
- Financial Performance (balance sheets, ratios, depreciation)
- Window Dressing
- Non-Financial Performance

Chemistry

Class 12A1 – Lesson 3

Unit 1:

- 1.1 Formulae and equations
- 1.2 Basic ideas about atoms
- 1.3 Chemical calculations
- 1.4 Bonding
- 1.5 Solid Structures
- 1.6 The Periodic Table
- (1.7 Simple Equilibria and acid-base reactions)

Class 12A2 – Lesson 2

Unit 1:

- 1.1 Formulae and equations
- 1.2 Basic ideas about atoms [excluding 1.2 e) f) & g)]
- 1.3 Chemical calculations

Unit 2:

- 2.4 Organic Compounds
- 2.5 Hydrocarbons
- 2.6 Halogenoalkanes
- 2.7 Alcohols and Carboxylic Acids
- (2.8 Instrumental Analysis)

Class 12B1 – Lesson 3

Unit 1:

- 1.1 Formulae and equations
- 1.2 Basic ideas about atoms
- 1.3 Chemical calculations
- 1.4 Bonding
- 1.5 Solid Structures
- 1.6 The Periodic Table
- (1.7 Simple Equilibria and acid-base reactions)

Class 12B2 – Lesson 2

Unit 1:

- 1.1 Formulae and equations
- 1.2 Basic ideas about atoms [excluding 1.2 e) f) & g)]
- 1.3 Chemical calculations

Unit 2:

- 2.4 Organic Compounds
- 2.5 Hydrocarbons
- 2.6 Halogenoalkanes
- 2.7 Alcohols and Carboxylic Acids
- (2.8 Instrumental Analysis)

Year 13

13C1 – Lesson 5

Unit 3:

- 3.1 Redox and standard electrode potential
- 3.2 Redox reactions
- 3.3 Chemistry of the p-block
- 3.4 Chemistry of the d-block transition metals
- 3.5 Chemical Kinetics
- 3.8 Equilibrium constants
- (3.9 Acid-base equilibria)

13C2 – Lesson 5

Unit 3:

- 3.1 Redox and standard electrode potential
- 3.2 Redox reactions
- 3.3 Chemistry of the p-block
- 3.4 Chemistry of the d-block transition metals

Unit 4:

- 4.1 Stereoisomerism
- 4.2 Aromaticity
- 4.3 Alcohols and phenols
- 4.4 Aldehydes and ketones
- 4.5 Carboxylic acids and their derivatives
- 4.6 Amines

13D1 – Lunchtime

Unit 3:

- 3.1 Redox and standard electrode potential

- 3.2 Redox reactions
- 3.3 Chemistry of the p-block
- 3.4 Chemistry of the d-block transition metals

Unit 4:

- 4.1 Stereoisomerism
- 4.2 Aromaticity
- 4.3 Alcohols and phenols
- 4.4 Aldehydes and ketones
- 4.5 Carboxylic acids and their derivatives
- 4.6 Amines

Computer Science

Year 12

For each topic, pupils should consult the relevant parts of the course specification provided on Moodle to ensure that they are confident in each area as questions will be based around these requirements.

Topics for year 12: Theory – 1 hour

- Hardware
- Communication (networking & data transmission)
- Logic (gates, boolean algebra)
- Data representation and types
- Data structures
- Operating systems

Topics for Year 12: Practical 1 hour

- Write a data flow diagram
- Tkinter
- Variables
- Selection (If, Elif)
- Functions (def)
- Loops (For, While)
- File Handling (read, write and append)

Year 13

For each topic, pupils should consult the relevant parts of the course specification provided on Moodle to ensure that they are confident in each area as questions will be based around these requirements.

- Data structures
- Logic (gates, boolean algebra)
- Algorithms
- Organisation and structure of data
- Databases and SQL

Economics

Year 12

Micro –

- Basic economic problem
- PPFs
- Demand and Supply
- Market equilibrium
- Consumer/producer surplus
- Elasticity

Macro –

- Macro-economic objectives
- Circular Flow
- AD & AS
- Fiscal Policy

Year 13

Micro –

- Costs Revenues Profits
- Definitions & calculations
- Key Diagrams

Macro –

- Trade and Development
- The European Union
- Measuring Economic Development
- Obstacles to Economic Development
- Solutions to Economic Development
- Economic Growth

English Literature

Year 12

Street Car Essay and Duffy and Larkin Unseen Comparison

Year 13

- Keats Poetry Analysis
- Unseen Poetry Analysis
- Lear Essay
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French

Year 12

La Rafle - themes of war / persecution and the character of Jo Weismann. Written essay.

l'identité, le tabagisme, l'alcool, les loisirs, les nouvelles technologies. Translation, Reading, Listening.

Year 13

History Unit - 1939 - 1941 - Translation, Reading and Listening

Le Bal - theme of childhood / adolescence/ adulthood - character of Antoinette

Geography

Year 12

Changing Landscapes - Plate Tectonics and Coasts

Changing Places - Unit 2

Year 13

All of Unit 3- Oceans and Migration, Water and Carbon Cycle. Synoptic Question

History

Year 12

Open plan essay based on Henry VII (see teacher for further guidance)

Knowledge Organiser test (see teacher for further guidance)

Year 13

No formal mock exam as students have their NEA deadline.

ICT

Year 12

Revise topics: Data Information and Knowledge, The value and importance of information, quality of information, validation and verification, capabilities and limitations of ICT and Uses of ICT in the 'A' Level Specification

Use your notes and text books to go through the topics covered to date.

For each topic, pupils should consult the relevant parts of the course specification provided on Moodle to ensure that they are confident in each area as questions will be based around these requirements.

Year 13

Revise topics: Networks, The Internet, HCI and Security Systems in the 'A' Level Specification.

Use your notes and text books to go through the topics covered to date.

Law

Year 12

Civil Process, Criminal Process, Lay People, Legal Personnel

Year 13

Rules and theories of Criminal Law, General elements of Criminal Law, Offences against the person, property offences

Maths

Year 12

Year 12 Unit 1 Core Exam

SP and CJ Core classes: Monday 26th November, Period 1

DD and LJS Core classes: Tuesday 27th November, Period 1

DRH and EG Core classes: Tuesday 27th November, Period 5

Mock exams will be one hour and will take place during maths lessons. All Core topics covered since September 2018 will be examined.

Year 12 Unit 2 Applied Exam

DD Applied class: Thursday 29th November, Period 1
DRH, EG and IB Applied classes: Friday 30th November, Period 3
SP and RT Applied classes: Monday 3rd December, Period 1
Mock exams will be one hour and will take place during maths lessons. All Applied topics covered since September 2018 will be examined.

Year 13

Year 13 Unit 3 Core Exam

ES and STA Core classes: Thursday 6th December, Period 3
RT and DD Core classes: Thursday 6th December, Period 5
Mock exams will be one hour and will take place during maths lessons. All Core topics covered since June 2018 will be examined.

Year 13 Unit 4 Applied Exam

RT and CJ Applied classes: Monday 26th November, Period 2
IB and STA Applied classes: Monday 26th November, Period 5
Mock exams will be one hour and will take place during maths lessons. All Applied topics covered since September 2018 will be examined.

Media

Year 12

Unit 1 Section A . Prepare for Section A Question 1 which is unseen analysis of an area of advertising. Recap what has been learnt about representations of gender and the conventions of adverts. Learn key terminology and recap adverts studied in class. <http://resources.wjec.co.uk/Pages/ResourceSingle.aspx?rId=2362>

Unit 1 Section C: Film Industry revise all notes in relation to case study with a particular focus on institutional factors and the key concepts of genre and narrative. <http://resources.wjec.co.uk/Pages/ResourceSingle.aspx?rId=2430>

Year 13

Unit 4 revision: magazines with a focus on the set products *Cosmopolitan* and *Huck*. Focus on Media language, audience, representations and industry.

Unit 4 revision: Crime drama with a focus on the case studies. Key areas for study: media language, representations, industry, audience and historical/ social/ cultural contexts.

For both exam sections revise relevant theories [critical perspectives]

Music

Year 12

DL: Introduction, Exposition and sections of Haydn Symphony
SFA: Revision on all music theatre areas studied to date.

Year 13

DL: Introduction, Exposition and 1st Subject Sections of Brahms Symphony
SEC: Impressionism and Debussy Set Work

PE

Year 12

DCU:

Methods of training
Principles of training
Performance Analysis

GJ:

Sport, Culture and Society
Emergence of modern day sport.

LB:

Skill Classification
Methods of Practice
Guidance
Stages of learning
Reinforcement

Year 13

AHA:

Diet and Nutrition
Biomechanical Principles
Linear Motion
Angular Motion
Projectile Motion

LB:

Information Processing
Memory
Reaction Time

Cohesion
Leadership

RJ:

Ethics and deviance within Sport

(Sportsmanship, Gamesmanship, Coakley's Sport Ethic, Violence in sport and Doping within sport)

Sport & the Mass Media

(Functions and forms of the media, Golden Triangle & Stereotypes)

Physics

Year 12

- 1.1 Basic Physics
- 1.2 Kinematics
- Possibly some of the 1.3 Dynamics topic if we have got onto this by the end of November
- 1.4 Energy concepts
- 1.5 Solids under stress
- 1.6 Using radiation to investigate stars
- 1.7 Particles and nuclear structure
- Uncertainties

Year 13

- 3.1 Circular motion
- 3.2 Vibrations
- 3.3 Kinetic theory
- 3.4 Thermal Physics
- 3.5 Nuclear decay

- 3.6 Nuclear energy
- 4.2 Electrostatic and gravitational physics

Product Design

Year 12

Health and safety, CAD/CAM, Product analysis, Design specification

Year 13

Product Lifecycle, Sustainability, Risk Assessments, Intellectual Property, Reverse Engineering, Scales of Manufacture including JIT and Cell production, Computer Aided Design, Materials and their properties, Smart Materials

Psychology

Year 12

- Behavioural Approach (whole topic)
- Biological Approach (whole topic)
- Psychodynamic Approach – assumptions, evaluation (DRAINS), Dream Analysis therapy, application to relationships.

Year 13

Unit 3

- Addiction (whole topic)
- Schizophrenia – clinical characteristics and biological explanations

Unit 4

- Personal investigations – Chameleon Effect and Relationships

Research methods (whole topic)

Religious Studies

Year 12

Ethics Theme 2- Natural Law

Philosophy Theme 1 - Inductive Arguments for the Existence of God

Year 13

Ethics Theme 1 - Meta Ethics (Naturalism, Intuitionism and Emotivism)

Philosophy Theme 1 - Challenges To Religious Beliefs

Sociology

Year 12

Unit 1 - Core and Family. It will consist of 2 questions based on the core and 2 on family and will last 1hr. Pupils are to revise the whole unit but revision notes will be available to help with this.

Year 13

Unit 3 Crime and Deviance. There will be three questions. It will last 1hr 30mins. Pupils are to revise the whole unit but there will be revision notes to help.

Theatre Studies

No Mock Exam

Welsh

Year 12

Written 2 hour paper - grammar and poetry (unit 3)

- Lerpwl and Twyll learn these 2 poems
- Grammar tasks including corrections, changing tenses and person

Year 13

1 written paper - trawsieithu and hanes yr iaith (Unit 5)

- Trawsieithu – learn sentence patterns
- Hanes yr iaith – learn about the history of the language – Eileen Beasley, Cymdeithas yr Iaith, Urdd, S4C, Welsh medium education