



The Apple International School, Dubai

Portions for Entrance Exam 2023-2024

Year 9

English

Grammar:

- Reported Speech
- Active and Passive Sentences
- Degrees of comparison
- Suffix and Prefix
- Collocations
- Punctuation
- Determiners

Writing:

- Persuasive/ Argumentative writing
- Magazine Article
- Book Review
- Formal & Informal Letter writing
- News Report

Reading & Response

- Unseen comprehension
- Poetry – All literary/poetic devices

Mathematics

- Numbers: Fractions, Percentage, Decimals, Prime Numbers
- Algebra: Simplifying and solving linear equations, Indices

- Geometry: Co-ordinate geometry, Circles, Properties of Angles, Shapes, and Angles
- Statistics: Mean, Median, Mode
- Probability: Calculating Probability, probability Scale

Science

1 Respiration

- The human respiratory system
- Gas exchange
- Breathing
- Respiration.

2 Properties of materials

- Dissolving
- Solutions and solubility
- Planning a solubility investigation.
- Paper chromatography.

3 Forces and energy

- Forces and motion
- Speed
- Describing movement.
- Turning forces.
- Pressure between solids
- Pressure in liquids and gases
- Particles on the move



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Year 10

English

Reading and Response

- Unseen comprehension (Poetry or Prose)

Grammar

- Direct & Indirect Speech
- Types of Sentences
- Sentence Structure
- Discourse markers
- Conditional Sentences
- Punctuation Marks (Colon, semi-colon, hyphen, apostrophe)

Writing

- Blog post Writing
- Letter Writing
- Magazine Article
- News report & News Article
- Argumentative, Persuasive, Discursive & Descriptive Writing

Mathematics

- Numbers: Working with Fractions, Decimals, Significant figures, Order of Operations, Ratio and Proportions, Prime Numbers
- Algebra: Simplifying and solving linear equations Expanding Brackets, Indices, Inequalities, Simplifying Algebraic Fractions
- Geometry: Pythagoras Theorem, Area, Properties of Angles, Shapes
- Statistics: Mean, Median, Mode
- Handling Data: Sets Notations and Venn Diagram, Presenting Data

Science

1. Physics

- Density
- Heat and Temperature
- Conservation of Energy
- Moving from hot to cold.
- Ways of transferring thermal energy.
- Cooling by evaporation
- Electricity
- Electrical Circuits

2. Chemistry

- Periodic table
- Reactivity series
- Chemical equations
- Atomic Structure

3. Biology

- Photosynthesis
- More about photosynthesis
- The carbon cycle
- Climate change
- Excretion in humans



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Year 11

English

Grammar:

- Application of Grammar topic in Writing

Writing:

- Note Taking
- Summary Writing
- Article Writing
- Report Writing
- Letter Writing

Reading & Response

- Unseen Comprehension Passage

Mathematics

- Numbers: Prime Numbers, Working with Fractions, Prime Numbers, LCM and HCF, Percentage, Order of Operations
- Algebra: Simplifying and solving linear equations, Expanding Brackets, Indices, Simultaneous Equations, Inequalities
- Geometry: Area, Properties of Angles, Polygons, Shapes
- Statistics: Mean, Median, Mode
- Handling Data: Scatter Graphs and Correlations, Stem and Leaf Diagram, Frequency Tables
- Probability: Calculating Probability

Biology

1 Organisation of the organism

- Cell structure
- Size of specimens

2 Movement into and out of cells

- Diffusion
- Osmosis
- Active transport

3 Biological molecules

- Biological molecules

4 Enzymes

- Enzymes

5 Photosynthesis

- Photosynthesis
- Leaf structure

6 Human nutrition

- Diet
- Digestive system
- Physical digestion
- Chemical digestion
- Absorption

Chemistry

1. State of Matter

- Solids, liquids, and gases
- Diffusion

2. Atoms, Elements and Compounds

- Elements, compounds, and mixtures
- Atomic structure and the periodic table
- Isotopes
- Ions and ionic bonds
- Simple molecules and covalent bonds
- Giant covalent structures
- Metallic bonding

3 The Periodic Table

- Arrangement of Elements
- Group 1 Properties
- Group VII Properties
- Transition Elements
- Noble Gas

Physics

1. Motion, forces and energy

- Physical quantities and measurement techniques
- Motion
- Forces
- Effects of forces
- Turning effect of forces
- Centre of gravity
- Energy, Work and Power
- Energy resources
- Pressure

2. Thermal Physics

- Kinetic particle model of matter
- Particle model
- Gases and the absolute scale of temperature
- Conduction
- Convection
- Radiation

3. Waves

- General properties of waves
- Light
- Reflection of light
- Refraction of light
- Dispersion of light
- Electromagnetic spectrum
- Sound

Economics

- Basic economic problems
- Demand and Supply
- Production possibility curve

Price elasticity

Accounting

- Introduction to Accounting
- Double Entry Bookkeeping - Part A
- The Trial Balance
- Double Entry Bookkeeping - Part B
- Petty Cash Books
- Business Documents
- Books of Prime Entry
- Financial Statements - Part A
- Financial Statements - Part B-
- Accounting Rules
- Other Payables and Other Receivables
- Depreciation and Disposal of Non-Current Assets
- Bad Debts and Provisions for Doubtful Debts
- Bank Reconciliation Statements
- Journal Entries and Correction of Errors
- Control Accounts

Business Studies

- Concept of business
- Factors of production
- Sectors and Types of business organizations
- Growth of business
- Mixed economy and Value Added

Sociology

- Theory and methods
- Culture, identity and Socialization
- Social inequality



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Year 12

English

Reading & Writing

- Essay Writing & Comprehension Passage

Mathematics

- Numbers:
- Arithmetic Sequence, Simplifying arithmetic expressions, Scientific Notation, Sets,
- Algebra:
- Simplifying and solving linear equations, Indices, Quadratic Equations, Variation, Graphing linear and quadratic equations, inequalities, and their graphs
- Geometry:
- Co-ordinate geometry, Circles, Properties of Angles, Transformations, Dilation, Bearing, Trigonometry
- Statistics:
- Mean, Median, Mode, Charts
- Probability:
- Calculating probabilities of Independent and dependent, Types of events, Tree diagram

Physics

1. Motion, forces and energy

- Physical quantities and measurement techniques
- Motion
- Forces
- Energy, Work and Power
- Pressure

2. Thermal Physics

- Kinetic particle model of matter
- Transfer of thermal energy
- Thermal properties and temperature
- Specific heat capacity
- Melting, boiling and evaporation

3. Waves

- General properties of waves
- Light
- Electromagnetic spectrum
- Sound
- Thin lenses

4. Electricity and Magnetism

- Simple phenomena of magnetism
- Electrical quantities
- Electric circuits
- Electromagnetic effects
- Electromagnetic induction

5. Nuclear physics

- The nuclear model of the atom.
- Radioactivity

Chemistry

1 States of matter

- Solids, liquids and gases
- Diffusion

2 Atoms, elements and compounds

- Elements, compounds and mixtures
- Atomic structure and the Periodic Table
- Isotopes
- Ions and ionic bonds
- Simple molecules and covalent bonds
- Giant covalent structures
- Metallic bonding

3 The Periodic Table

- Arrangement of elements
- Group I properties
- Group VII properties
- Transition elements
- Noble gases

4 Experimental techniques and chemical analysis

- Experimental design
- Chromatography
- Separation and purification

5 Chemical energetics

- Exothermic and endothermic reactions

6 Chemical reactions

- Physical and chemical changes
- Rate of reaction
- Reversible reactions and equilibrium
- Redox

7 Metals

- Properties of metals
- Uses of metals
- Alloys and their properties
- Reactivity series
- Corrosion of metals
- Extraction of metals

Biology

1 Characteristics and classification of living organisms

- Dichotomous keys
- Features of organisms

2 Organisation of the organism

- Cell structure
- Size of specimens

3 Movement into and out of cells

- Diffusion
- Osmosis
- Active transport

4 Biological molecules

5 Enzymes

6 Photosynthesis

- Photosynthesis
- Leaf structure

7 Human nutrition

- Diet
- Digestive system

8 Transport in plants

- Xylem and phloem
- Transpiration
- Translocation

9 Transport in animals

- Circulatory systems
- Heart
- Blood vessels

10. Diseases and immunity

11 Gas exchange in humans

12 Respiration

- Respiration
- Aerobic respiration
- Anaerobic respiration

13 Excretion in humans

14 Coordination and response

- Coordination and response
- Homeostasis

Economics

- Elasticity of Demand and Supply.
- Standard of living
- Balance of payments
- Exchange rate
- International trade.

Accounting

Part I The accounting system

- Double-entry bookkeeping: cash transactions
- Double-entry bookkeeping: credit transactions
- Books of prime entry
- Balancing accounts
- The classification of accounts and division of the ledger
- The trial balance

Part II Financial accounting

- Income statements for sole traders
- Statements of financial position for sole traders
- Accounting principles or concepts
- Accruals and prepayments (the matching concept)
- Provisions for the depreciation of non-current assets }
- Irrecoverable and doubtful debts A
- Bank reconciliation statements
- Control accounts
- Suspense accounts,
- Incomplete records

Business Studies

- Business costs
- Production methods
- Operations planning
- Economies of scale & Diseconomies of scale
- Break even analysis



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Year 13

English

Reading & Writing:

- Essay Writing & Comprehension Passage

Mathematics

- Algebraic expressions,
- Quadratics
- Equations and Inequalities
- Graphs and Transformations
- Straight line graphs
- Trigonometric Ratios
- Radians
- Differentiation
- Integration

Economics

1.BOP Accounts

2.Production possibility curve

3.Aggregate Demand & Aggregate Supply

4. Govt. Macro- economic Policies

Accounting

Part I The accounting system

1. Double-entry bookkeeping: cash transactions
2. Double-entry bookkeeping: credit transactions
3. Books of prime entry
4. Balancing accounts
5. The classification of accounts and division of the ledger
6. The trial balance

Part II Financial accounting

7. Income statements for sole traders
8. Statements of financial position for sole traders
9. Accounting principles or concepts
10. Accruals and prepayments (the matching concept)
11. Provisions for the depreciation of non-current assets
12. Irrecoverable and doubtful debts A
13. Partnership accounts
14. Partnership changes

Part III Cost & Management Accounting

15. Marginal Costing

Business Studies

- 1.Types of business organizations
- 2.Types of Limited Companies- Public limited & Private limited
- 3.Size of business
- 4.Small business and Stakeholder's objectives

Note:

Year 12 and 13 entrance tests will be based on overall IGCSE and AS Level curriculum, respectively.