



The Apple International School, Dubai

Portions for Entrance Exam 2022-2023

## 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**

### **BIOLOGY**

#### 1 Respiration

##### 1.1 The human respiratory system

##### 1.2 Gas exchange

##### 1.3 Breathing

##### 1.4 Respiration.

### **CHEMISTRY**

#### 2 Properties of materials

##### 2.1 Dissolving

##### 2.2 Solutions and solubility

##### 2.3 Planning a solubility investigation.

##### 2.4 Paper chromatography.

### **PHYSICS**

#### 3 Forces and energy

##### 3.1 Forces and motion

##### 3.2 Speed

##### 3.3 Describing movement.

##### 3.4 Turning forces.

##### 3.5 Pressure between solids

##### 3.6 Pressure in liquids and gases

##### 3.7 Particles on the move

### **EARTH & SPACE**

#### Cycles on Earth

##### 5.3 Weather and Climate

##### 5.4 Climate and Ice ages

##### 5.5 Atmosphere and climate



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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

## **Biology**

### 1. Photosynthesis and the carbon cycle

#### 1.1 Photosynthesis

#### 1.2 More about

#### photosynthesis 1.3 The

#### carbon cycle

#### 1.4 Climate change

### 2. Maintaining life

#### 2.1 Plants and water

#### 2.2 Transpiration

#### 2.3 Excretion in humans

#### 2.4 Keeping a fetus

#### healthy

### 3. Genes and Inheritance

#### 3.1 Chromosomes, genes and DNA

#### 3.2 Gametes and inheritance

#### 3.3 Variation

#### 3.4 Natural Selection

## **Physics**

### 1. Forces and energy

#### 1.1 Density

#### 1.2 Heat and Temperature

#### 1.3 Conservation of Energy

- 1.4 Moving from hot to cold.
- 1.5 Ways of transferring thermal energy.
- 1.6 Cooling by evaporation

## 2. Electricity

- 2.1 Parallel Circuit
- 2.2 Current and Voltage in parallel Circuit.
- 2.3 Resistance
- 2.4 Practical Circuits

## 3. Sound and Space

- 3.1 Loudness and pitch of Sound.
- 3.2 Interference of Sound
- 3.3 Formation of the Moon
- 3.4 Nebulae
- 3.5 Tectonics



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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. Characteristics and classification of living organisms

#### 1.2.4 Dichotomous keys

#### 1.3 Features of organisms

### 1 Organisation of the organism

#### 1.1 Cell structure

#### 1.2 Size of specimens

### 2 Movement into and out of cells

#### 2.1 Diffusion

#### 2.2 Osmosis

#### 2.3 Active transport

### 3 Biological molecules

#### 3.1 Biological molecules

### 4 Enzymes

4.1 Enzymes

**5** Photosynthesis

5.1 Photosynthesis

5.2 Leaf structure

**6** Human nutrition

6.1 Diet

6.2 Digestive system

6.3 Physical digestion

6.4 Chemical digestion

6.5 Absorption

## **Chemistry**

**1. STATES OF MATTER**

1.1 Solids, liquids, and gases

1.2 Diffusion

**2 ATOMS, ELEMENTS AND COMPOUNDS**

2.1 Elements, compounds, and

mixtures 2.2 Atomic structure and the

periodic table

2.3 Isotopes

2.4 Ions and ionic bonds

2.5 Simple molecules and covalent bonds

2.6 Giant covalent structures

2.7 Metallic bonding

## 8 THE PERIODIC TABLE

8.1 Arrangement of Elements

8.2 Group 1 Properties

8.3 Group VII Properties

8.4 Transition Elements

8.5 Noble Gas

## **Physics**

### 1. Motion, forces and energy

1.1 Physical quantities and measurement techniques

1.2 Motion

1.5 Forces

1.5.1 Effects of forces

1.5.2 Turning effect of forces

1.5.3 Centre of gravity

1.7 Energy, Work and Power

1.7.1 Energy

1.7.2 Work

1.7.3 Energy resources

1.7.4 Power

1.8 Pressure

### 2. Thermal Physics

2.1 Kinetic particle model of matter

2.1.2 Particle model

2.1.3 Gases and the absolute scale of temperature

2.3 Transfer of thermal energy

2.3.1 Conduction



2.3.2 Convection

2.3.3 Radiation

### **3. Waves**

3.1 General properties of waves

3.2 Light

3.2.1 Reflection of light

3.2.2 Refraction of light

3.2.4 Dispersion of light

3.3 Electromagnetic  
spectrum

3.4 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

## **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.