



**PORTION FOR ENTRANCE TEST**  
**(2024 - 2025)**

**GRADE: IX**

**ENGLISH:**

Students should be able to attempt the following tasks in an advanced style:

1. Comprehension & Summary writing.
  2. Compositions: Essays: Descriptive (People, place, object)
  3. Diary account, Letter Article, Report – Narrative, Argumentative.
- Note: Vocabulary, spelling, presentation, clarity of expression and accuracy will be especially considered while assessing the scripts.

**MATHS**

1. Indices, fractions, decimals, standard forms & significant figures.
2. Percentages, Ratios and Proportion.
3. Algebraic factors and products.
4. LCM and HCF
5. Solving linear equations, Inequalities.
6. Matrices [Add, Subtract, Multiply ( $2 \times 2$ )]
7. Use of Pythagoras theorem, three trigonometric ratios.
8. Formulae – Substitution of values & change of subjects.

**PHYSICS:**

1. Balanced & unbalanced forces
2. Density & Pressure
3. Thermal Effects
4. Magnets & magnetic field
5. Work, Energy, Power
6. Forms of energy & energy transfer
7. Energy resources & Electricity generation
8. Light: (i) Reflection (ii) Refraction

**CHEMISTRY:**

1. States of Matter
2. Atomic Structure
3. Chemical Bonding
4. Periodic Table
5. Chemical Equations

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**BIOLOGY:**

1. Characteristic features of living things.
2. Cells
3. Digestion in Human
4. Heart – Blood – Blood vessels
5. Nutrition in Human
6. Movement of molecules in and out of cells.

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**I. C. T.**

1. Input and Output Devices
2. Operating System
3. User Interfaces
4. MS Excel
5. Computer Applications
6. Computer Networks
7. Internet
8. Computer Crimes

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## **National Identity Syllabus**

National Identity themes & elements: Culture (Arabic Language, History & Heritage), Values (Respect, Compassion & Global / Cultural Understanding), and Citizenship (National belonging, volunteering & conservation).

- **Understanding UAE Culture:** Explore Arabic language, history, heritage, and values such as respect, compassion, and cultural understanding.
- **Symbolism and Traditions:** Examine UAE symbols (national anthem, flag, etc.) and customs (coffee and dates, greetings, etc.).
- **Founding Fathers and Leadership:** Get familiar with the names of founding fathers, current rulers and crown princes. Explore the role of H.H. Sheikh Zayed and other founding fathers in the formation of the UAE, and learn about the current ruler's initiatives.
- **UAE Facts:** Discover geographical, historical, and cultural facts about the UAE.
- **Heritage and Landmarks:** Explore UAE's heritage buildings, ancient civilizations, and famous landmarks.