

## Secondary Section: Grade IX

According to AIS Admission Policy, at around 14 years of age, your child is suitable to be admitted in Grade IX of the AIS Secondary Section.

In order to cope up with a wide range of activity based lessons, your child must be well acquainted with particular levels of skills, knowledge and understanding.

The following literacy and numeracy skills are required in your child as prerequisites for this grade:

### **English**

#### **Grammar**

- Direct and indirect speech
- Punctuation
- Parts of speech( adjectives, verbs, nouns, adverbs, conjunctions, connectives, pronouns)
- Question tags
- Figures of speech
- Active and passive voice
- Tenses
- Different types of sentences – compound and complex sentences
- Idioms and proverbs
- Metaphors and similes
- Personification and elicitation

#### **Comprehension**

- Ability to read and answer questions appropriately using evaluative skills through a challenging comprehension passage
- Meaning in context
- Summarizing the comprehension passage

#### **Creative writing**

- Descriptive writing
- Dialogue writing
- Letter writing – formal and informal
- Persuasive writing
- Imperative writing
- Speech
- Article writing
- Summary writing

## Urdu

تفہیم

عوامی اشتہارات کی تفہیم، نثر پارے سے تفہیم

متن سے معلومات اہد کر کے فارم پُر کرما

متن سے اہم نکات اہد کرما

متن کا خلاصہ لکھنا

نکات کے مطابق مضمون لکھنا

مضامین میں اشعار اور محاورات کا استعمال

## Mathematics

- Reviewing Number Concepts
- Fractions and Standard Form
- Expansion and Factorisation of Algebraic Expressions
- Algebraic Manipulation and Formulae
- Simultaneous Linear Equations
- Pythagoras' Theorem
- Volume and Surface Area
- Set Language and Notation
- Introduction to Probability
- Graphs of Linear Equations in Two Unknowns

## Biology

1. Characteristics and classification of living organisms
2. Cells
3. Movement in and out of cells
4. Biological molecules
5. Enzymes
6. Plant Nutrition
7. Animal Nutrition
8. Transport in plants

## Physics

1. Making Measurements; length, volume, density, time.
2. Motion, Forces and Energy
3. Momentum
4. Energy, Work and Power (resources and transfer)
5. Pressure
6. Thermal Physics; Kinetic Particle Model of Matter, Thermal Properties and Temperature, Thermal Processes

## **Chemistry**

1. State of Matter
2. Atoms Elements and Compounds
3. Periodic Table

## **Islamiyat**

### **Paper 1**

- Major themes of the Quran
- Passages from the Quran (Passage # 1 – 15)
- History and importance of Quran
- Life and Importance of Prophet Muhammad pbuh
- Life in Makkah
- Life in Madinah
- Prophet's actions and character
- The importance of Prophet's actions as examples for Muslim individuals in their personal conduct and relations, with others including women and non-Muslims
- The importance of Prophet's actions as examples for Muslim communities in their relations with other states his significance as Seal of the Prophets and last Messenger of God.

### **Paper 2**

- Major teachings in the Hadiths of the Prophet (Hadith # 1 – 20)
- The history and importance of the Hadiths
- The period of rule of the Rightly Guided Caliphs and their importance as leaders
- Hazrat Abu Bakr
- Hazrat Umer
- The Articles of Faith and the Pillars of Islam

## **Pakistan Studies**

### **The History & Culture of Pakistan**

#### **Section 1- Cultural and historical background to the Pakistan Movement**

- How successful were the religious thinkers in spreading Islam in the subcontinent during the 18<sup>th</sup> and 19<sup>th</sup> centuries?
- What were the causes and consequences of the decline of the Mughal Empire?
- What were the causes and consequences of the war of independence 1857-58?
- How Important was the work of Sir Syed Ahmed Khan to the development of Pakistan movement in the 19<sup>th</sup> century?
- To what extent have Urdu and regional languages contributed to the cultural development of Pakistan?

#### **Section 2- The emergence of Pakistan 1906–47**

- How far did the Pakistan Movement develop during the early 20<sup>th</sup> century?
- How successful was the Khilafat movement in advancing the cause of Pakistan movement?

- How successful was the Pakistan movement in the years 1927 to 1939?
- How important were attempts to find a solution to the problems facing the sub continent in the years 1940-1947?

### **The Environment of Pakistan**

- The Natural Topography
- Climate of Pakistan
- Development of water Resources
- Forests
- Mineral Resources
- Fishing Industry
- Agriculture

### **Business Studies**

#### **Business Activity**

Classification of businesses  
Enterprise, business growth & size  
Types of business organisation  
Business objectives & stakeholders objectives

#### **Motivating employees**

Organisation and Management  
Recruitment, selection & training  
Internal & External communication  
Marketing, competition & the customer  
Market Research

### **Accounting**

The background and main features of Financial Accounting  
Recording Transactions  
Inventory  
The effect of profit or loss on capital & the double entry system for expenses and revenue

Balancing of accounts  
Trial Balance  
Books of original entry and ledgers  
Cashbooks ;Petty Cashbook  
Accounts for Sales, Purchases and Returns  
The journal

### **Information and Communication Technology**

Types and components of computer systems  
Input and output devices  
Storage devices  
Effects of using ICT  
Safety and security  
File management (Practical & Theory)

Layout (Practical)  
Styles (Practical)  
Graphs & charts  
Document production  
Database (Practical & Theory)  
Presentations (Practical)