



# **DUBAI GRAND INTERNATIONAL SCHOOL**

**SUCCESS IN BOTH WORLDS**

## **SA-I Syllabus of 7<sup>th</sup> Grade (2023-24)**

### **English**

#### **Chapters**

1. Fathers Help
2. Binya's blue Umbrella
3. Just Me
4. The boy with a catapult

#### **Grammar**

1. Present Tense (All sub types)
2. Letter writing (Formal and Informal)

### **Mathematics**

#### **Unit I: Powers of Exponents**

- 1) Exponents
- 2) Laws of exponents
- 3) Expanded form of numbers
- 4) Scientific notation.

#### **Unit II: Lines and Angles**

- 1) Review of Angles
- 2) Special pair of angles (complementary, supplementary angles)
- 3) Adjacent angles ,Linear Pair and angles on a straight line
- 4) Property of parallel lines

# Physics

## Chapter 3: Energy

1. Energy
2. Forms of energy
  - a. Mechanical energy
    - i. Potential energy
    - ii. Kinetic energy
  - b. Chemical energy
  - c. Heat energy
  - d. Light energy
3. Energy Transformation
  - a. From P.E to K.E and vice versa
  - b. Law of conservation of mechanical energy

## Chapter 4: Light

1. Description of light
2. Reflection of light
3. Reflection from plane mirrors
  - a. Laws of reflection
  - b. Types of reflection
  - c. Image formation
  - d. Lateral inversion

# Chemistry

## Chapter 2: Physical and Chemical changes

1. Changes and Chemical reactions
2. Types of changes
  - a. Reversible changes
  - b. Irreversible changes
  - c. Physical changes
    - i. Glowing of bulb
    - ii. Melting of ice (Solid)

- iii. Freezing of a liquid
- iv. Sublimation
- v. Dissolution
- vi. Evaporation
- d. Chemical changes
  - i. Burning of coal
  - ii. Rusting
  - iii. Curdling of milk
  - iv. Fermentation
- 3. Differentiate between Physical and Chemical change
- 4. Change of mass in a chemical change
- 5. Exothermic and Endothermic change

#### **Chapter 4: Atoms, Molecules and Radicals**

- 1. Atoms
  - a. Description
  - b. Atomic number
  - c. Valency
  - d. Periodic table
- 2. Molecules
  - a. Description
  - b. Representation (Formulae)
    - i. Elements
    - ii. Compounds
- 3. First 20 elements

### **Biology**

Unit I: Photosynthesis and respiration in plants.

- 1. Photosynthesis, sites of photosynthesis
- 2. Role of stomata in photosynthesis
- 3. Respiration
- 4. Types of respiration

## **History**

1. The Bahmani and Vijayanagar kingdoms.
2. The Constitution of India

**Activity:** Read a newspaper at home and note some basic instances reported in which fundamental rights have been violated.

## **Geography**

1. Weather and Climate
2. Weathering and Soil Formation

## **Information Technology**

1. Charts in Microsoft Excel 2013.
2. Advanced features of Microsoft Excel 2013.

## **General Knowledge**

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## Urdu

اسباق-

قلم

شاہ ہمدان

ڈاک کا انوکھا ٹکٹ

شکر گزاری

تین کہانیاں

حصہ گرائمر  
فعل کی قسمیں

مترادفات

مرکب کا بیان

مضمون، انٹرنیٹ کے فائدے و نقصان۔

## Kashmiri

- ٹایم پیس چھ ونان
- شیخ العالم
- ایڈیسن
- ڈل

## Arabic

دروس الاسلام

Lesson no 10

سورة الهمزة

Lesson no 11

کابتِ قرآن اور کاتبین وحی

Lesson no 12

حضرت موسیٰ علیہ السلام

Lesson no 13

کھانے پینے کے آداب

الدروس العربية

الدرس الرابع

الدرس الخامس

القرآن الکریم

من سورة الطارق الى سورة الانفطار