

## **SYLLABUS of SCIENCE for ADMISSION to GRADE: 8**

**Plant Systems:** Root and Shoot Systems, Leaves, Transport in Plants, Transpiration, Photosynthesis, Respiration

**Human Respiratory and Circulatory Systems;**

**Immunity and Diseases:** Innate, Adaptive and Passive Immunity, Infectious Diseases

**Physical and Chemical Changes:** Explanation and Examples, Rusting, Tarnishing and Combustion

**Structure of an Atom:** Atomic Number, Mass Number, Modern Periodic Table, Distribution of Electrons in Shells

**Ionic and Covalent Bond**

**Formation of a Solution:** Dilute and Concentrated Solutions, Solubility, Factors Affecting Solubility

**Water Conservation**

**Preservation of Food**

**Force and Motion:** Speed, Distance, Force (Contact and Non-Contact)

**Mechanical and Electromagnetic Waves:** Transverse and Longitudinal Waves, Properties of Waves, Sound Waves and Its Properties

**Temperature Scales (Kelvin, Celsius and Fahrenheit)**

**Heat:** Thermal Expansion, Conduction, Convection and Radiation.