

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.