

Everyday Science

Objectives:

To provide the students basic knowledge about science.

Science:

Introduction: History of Science, Achievements of some giants of science in the chronological order, Islamic Science, Some famous Muslim scientists (Al Khwarzmi, Jabir bin Hayan, Bu Ali Seena, Ibn Al Hatham) Nature of Science, Impact of Science on Society (Importance, scope, Applications, Horrors, Limitation of Science)

The Universe:

The Origin, The Big Bang, The Structure, Galaxies, The future of the Universe, Solar System and their characteristics , The Sun , Moon, Earth (Structure and Layers of Earth, Atmosphere Composition, The most amazing objects (Asteroids, Meteorites, Comets), The Green House effects (Earth thermostat, Global warming, Ozone's depletion, Acid rain) Earthquakes and their causes, Eclipses (Solar and Lunar)

Energy:

Energy, Units of Energy, Interconvertible form of Energy, Sources of Energy (Primary and Secondary)

The Communication System (Radio, Television, Telephone), Fertilizers, Pesticides, Camera, Plastic, Computers, Medicines, Vaccines.

Living Things:

Introduction, Classification: Oland Kingdom, Non-green Plants, Animal Kingdom, Invertebrates (Insects), Vertebrates (Fishes, Birds, Dolphins, Porpoises, Reptiles, Amphibians, Birds, Mammals), Origin of Life, Cells and different parts of cells, Diseases; Introduction, Infectious diseases (Cholera, Malaria, Typhoid, Pertussis), Bacteria, Viruses, Antibiotics, Chromosomes, Genes, Balance Food (Carbohydrates, Proteins, Fats, Minerals, Water), Vitamins.

Human phycology:

System of the human body, Skeletal, Muscular, Digestive, Excretory, Circulatory Nervous System.

Recommended Books:

1. "Every Day Science" by Prof Dr M. Akram Kashmiri (A.H Publishers)
2. "Every Day Science Advanced" by Imtiaz Shahid (Advance AP Publishers)