

## SCIENCE

### Unit Test - I

#### April

Chapters	Nutrition In Plants
Objectives	Nutrition, Its types Replenishing nutrients in the soil
Activity	To show chlorophyll is necessary for photosynthesis
Chapters	Nutrition In Animals
Objectives	Nutrition in Amoeba, hydra, Frog. Human digestive system. Ruminants
Activity	To study the effect of saliva on food.

### Unit Test - 2

#### May

Chapters	Heat and Its Effects
Objectives	Heat and its effects expansion in solids and liquids. Temperature and its measurement.
Activity	To show difference between clinical and laboratory thermometers.
Chapters	Flow of Heat
Objectives	Conduction convection Radiation
Activity	To show materials as insulators and conductors.

### HALF YEARLY (INCLUDING UT-1 AND UT-2 CHAPTERS)

#### July

Chapters	Motion and Time
Objectives	Standard units of measurement speed, uniform and non uniform motion. Distance time graph
Activity	To calculate time period-of a pendulum
Chapters	Animal Fibres
Objectives	Climate and clothes Natural Fibers
Activity	To differentiate natural, silk and wool fibres from artificial or synthetic fibres.
Chapters	Physical and Chemical changes
Objectives	Physical and chemical changes. Characteristics of chemical reactions. Types of chemical reactions. Separating a solid from a solution.
Activity	To prepare magnesium hydroxide in the laboratory.

#### August

Chapters	Winds, Storm and Cyclones
Objectives	Natural disasters Air pressure and its properties, Thunderstorms, Cyclones and Tornadoes, Cyclone forecasting and Warning.
Activity	To study air expands and contracts an cooling
Chapters	Transportation of materials in plants and animals.
Objectives	Transportation of materials in plants and animals. Excretion in animals and plants
Activity	To study xylem conducts water and phloem transport food material in plants.

#### September

Chapters	Water - A Natural Resource
Objectives	Renewable and Non Renewable sources, The water cycle ground water water conservation.
Activity	To study the states of water.

### REVISION OF HALF YEARLY EXAMS

**Unit Test - 3**

Chapters Soil

Objectives Composition of soil , Formation of soil , Soil profile,  
Types and properties of soil, soil and crops

Activity To show that soil contains moisture and air.

Chapters Reproduction in plants

Objectives Asexual and sexual reproduction, vegetative reproduction, artificial methods  
reproduction.

Activity To show the formation of bread mould

**Unit Test - 4**

Chapters Light

Objectives Rectilinear propagation of light, Reflection of light, Real and virtual Images, Lenses  
and mirrors, Spectrum.

Activity To study white light consists of seven colours.

**November**

Chapters Electric Current And its Effect

Objectives Electric current and its circuit, Effects of electric current, Electromagnet.

Activity To make an electric circuit.

**ANNUAL EXAMINATION**

Chapters Respiration

Objectives Respiration in plants and animals, Respiration in animals, Types of respiration

Activity To study mechanism of breathing in Human.

**December**

Chapters Our Forests

Objectives Forest Wealth producer, consumers, Decomposers, Food chain , Balance in nature.  
Food Conservation.

Activity To study food chain.

Chapters Waste Water Management

Objectives Waste water and sewage. Importance of Drainage and sanitation, Sewage system  
sewage treatment and sewage disposal methods.

Activity To study alternative methods of sewage disposal.

Chapters Acids, Bases and Salts

Objectives Acids and Bases. Their important properties, Preparation and uses

Activity To study Neutralization reaction.

**January**

Chapters Structure of Matter

Objectives Matter, elements and compounds mixture , chemical symbols and formulas with  
chemical equation.

Activity To study common elements and their symbols.

Chapters Weather, Climate and Adaptation

Objectives Weather, Climate effects of the sun and climate climate and Adaptation.

Activity To study weather changes.

**ANNUAL SYLLABUS**

Nutrition in Animals (From Half Yearly)	Heat and its Effects (From Half Yearly)
Physical and Chemical changes (From Half Yearly)	Motion & Time ( From Half yearly) Soil
Reproduction in plants	Light
Electric current and its effect	Respiration
Our Forests	Waste water Management
Structure and Matter	Weather, Climate and Adaptation