

SCIENCE

April

Unit Test - 1

Chapter

Microorganisms

Objective

Learner will be able to understand types of microorganisms Fermentation, Food Preservation methods.

Activity

To study fermentation of sugar by yeast

Chapter

Conservation of plants and animals

Objective

Learner will be able to understand Biodiversity Flora and Fauna. Conservation of forests and wildlife. Biosphere Reserve , Red Data Book.

Activity

To identify flora and fauna

Unit Test -2

May

Chapter

Synthetic Fibres and Plastics

Objective

Learner will be able to understand polymers, sunthetic fibers plastics.

Activity

To show obserption of water by fibers.

Chapter

Metal and Non Metal

Objective

Learner will be able to understand properties of metals and Non metals. The reactivity series of metals Alloy , Corrosion of metals

Activity

To show sound produced by metals and non metals when struck

HALF YEARLY

(Including U.T- and U.T-2 Chapters)

July

Chapter

Crop Production

Objective

Learner will be able to understand crop plants, Methods of crop production, Nitrogen cycle food from animals.

Activity

To separate healthy seeds from unhealthy ones.

Chapter

Coal and Petroleum

Objective

Learner will be able to understand , Natural Resources. Fossil Fuels Coal, Petroleum natural gas preventing energy crisis.

Activity

To classify materials as natural or human made.

Chapter

Combustion and Flame

Objective

Learner will be able to understand combustion, Extinguishing a fire, structure of flame.

Activity

To study conditions needed for combustion.

August

Chapter

Cell - Structure and Functions

Objective

Learner will be able to understand the cell theory , Unicellular and Multicellular organisms. Plant and Animal cells growth and Division.

Activity

To observe the basic components of a cell.

Chapter

Some natural phenomenon

Objective

Learner will be able to understand concept of charge and its types. Attraction and repulsion of charges. Detection and measurement of charge. Lightning Richter Scale. Causes and effects of earthquakes. Protection against.

Activity

To study like charges repel and unlike charges attract each other.

September

Chapter

Pollution of water and air

Objective

Learner will be able to understand pollution and conservation of water and air.

Activity

To study the filtration of muddy water

Revision

HALF YEARLY EXAMS

Unit Test - 3

October

Chapter Reproduction

Objective Learner will be able to understand Sexual reproduction, Internal and external fertilization.

Activity To observe binary fission in amoeba.

Chapter Reaching the age of Adolescence

Objective Learner will be able to understand. The endocrine system puberty and Adolescence
Determining the sex of baby Health for adolescence.

Activity To study the changes at puberty.

Unit Test - 4

Chapter Force and Pressure

Objective Learner will be able to understand. Types of forces and its effects. Pressure and its effects in daily life. Pressure exerted by liquid atmospheric pressure.

Activity To show magnetic force acting from a distance.

November

Chapter Friction

Objective Learner will be able to understand causes of friction, Advantages and disadvantages of friction, Minimizing and increasing friction, fluid friction.

Activity To study friction prevents movement unit the force applied is greater than the force of friction.

ANNUAL TERM

Chapter Sound

Objective Learner will be able to understand. How sound produced and its characteristics, How sound travel, Functioning of Human ear, Reflection and absorption of sound, Musical sound and noise.

Activity To show how sound is produced.

December

Chapter Chemical Effects of Electric Current

Objective Learner will be able to understand conduction of electricity through liquids, Electrolysis Electroplating.

Activity To make a tester for conductors and Insulators.

Chapter Reflection of light

Objective Learner will be able to understand Regular and diffused reflection, Laws of Reflection, Characteristics of Image formed with a plane mirror Multiple Reflection.

Activity To verify the law of reflection i.e 1st law of reflection.

Chapter Refraction and Dispersion of Light

Objective Refraction of light, Dispersion of light, Lenses, Structure of eye.

Activity To study dispersion of light.

January

Chapter The Universe

Objective Learner will be able to understand. The Universe galaxies, stars, planets, Satellites and constellation, Measuring distances in the Universe, The solar system. The origin of the universe.

Activity To make a model of solar system.

Full Syllabus will come in Annual Term.

Note : Mention Activities will be demonstrated by the Teacher.