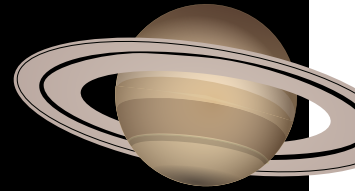


LearnXRTM

LABS

AR/VR/IMR LAB SETUP PROPOSAL

FOR SCHOOLS



Brief : LearnXR Lab , a concept by Altie Reality is designed for assisted learning through use of AR/VR/IMR. The content has been designed to make learning more immersive , Practical and Real Life Oriented.





LABS FOR SCHOOLS



CONCEPT

LearnXR Lab is a novel idea that provides immersive content for students of all ages, assisting them in better understanding courses and themes via personal experiences. LearnXR Labs significantly improves student engagement and information retention.

LearnXR LAB : GOLD

- 15 Oculus Quest Standalone VR headsets
- 5 Bean Bags
- Wi-fi Router
- A rugged portable charging case
- A Tablet
- Curriculum Aligned Content (Yearly Renewal)
- Premium Cardboard Headset for Every Student for Home.**
- Subscription to Pro Plan for LearnXR App for every students **



LearnXR LAB : SIGNATURE

- 25 Oculus Quest Standalone VR headsets
- 10 Bean Bags
- Wifi Router
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VIRTUAL , AUGMENTED AND MIXED REALITY CONTENT & LESSON PLANS

- Our curriculum-aligned tools and planned lesson plans assist to ignite students' imaginations, leaving them with memories and experiences that help them visualise and comprehend even the most complicated educational subjects. Over 300 pre-made exercises are presently available, spanning a wide range of subjects and academic subject areas. Immerse students in 360-degree images and videos, take AR experiences off the page, or hold 3D models in your palm. Get creative with a 360 camera or 3D modelling software and upload your own files, which you may subsequently share with the entire internet community.

** Subject to availability of headsets, and Lesson on Lexrn App.

Pricing for LearnXR Lab Setup with 25 Device Lab and 1 Year AR/VR content License for School

S. No.	EQUIPMENT /SERVICE FOR LearnXR LAB	PRICE/UNIT	QUANTITY	#	TOTAL PRICE
1	Meta Quest 3 /PICO G2 64 GB OR SIMILAR	47000	25		705000
2	Bean Bag	4000	15		60000
3	Network Device (Router, Wifi)	5000	1		3000
4	Samsung Galaxy TAB	16000	1		16000
5	LearnXR Android App Pro License	999	500		499500
6	AR/VR CONTENT License (Yearly) for School Labs	300000	1		300000
7	LearnXR CARDBOARD HEADSET FOR EVERY STUDENT	799	500		399500
8	Installation Cost				50000
9	Teacher Training and Annual Maintainance				50000
	SUBTOTAL				2553000
	GST @18%				459540
	Total				3012540

*All the prices mentioned above are estimated prices and are subject to change based on international price changes respective to the product brands.



AR/VR Content on LearnXR Meta Quest App

Std- 5 to 10 Science

Class 5

Chapter 1 Super Senses

- Activity 1 Supersense of smell
- Activity 2 Supersense of danger
- Activity 3 Supersense of sights
- Activity 4 Supersense of hearing

Chapter 2 A Snake Charmer's Story

- Activity 1 Introduction of snakes

Chapter 3 From Tasting to Digesting

- Activity 1 Introduction of tongue
- Activity 2 Human digestive system

Chapter 4 Mangoes Round the Year

- Activity 1 How does food get spoilt?(example of Bread)
- Activity 2 How does food get spoilt?(example of milk)
- Activity 3 Mamidi tandra

Chapter 5 Seeds and Seeds

- Activity 1 Sprouting
- Activity 2 Characteristics of pitcher plant
- Activity 3 Germination of seeds
- Activity 4 Disposal by water, air and birds

Chapter 6 Every Drop Counts

- Activity 1 Preservation of rain water by underground tank
- Activity 2 Preservation of rain water by step well

Chapter 7 Experiments with Water

- Activity 1 What floats, what sinks?
- Activity 2 Dead sea
- Activity 3 what is soluble in water and what is not?

Chapter 8 A Treat for Mosquitoes

- Activity 1 mosquito life cycle
- Activity 2 Blood Test

Chapter 9 Up You Go !

- Activity 1 Crossing the river
- Activity 2 Rock Climbing
- Activity 3 Camp in the snow
- Activity 4 Top of the mountain

Chapter 10 Walls Tell Stories

- Activity 1 Visit of Golconda Fort
- Activity 2 Arrangements of Water

Chapter 11 Sunita in Space

- Activity 1 At the Space Station
- Activity 2 Atmosphere at space

Chapter 12 What if It Finishes..?

- Activity 1 Move to the traffic
- Activity 2 Save fuel and Uses of fuel
- Activity 3 Wood to LPG Transformation

Chapter 13 Walls Tell Stories

- Activity 1 Let's go to Ladakh
- Activity 2 Use of Map in traveling for finding the location
- Activity 3 Let's wonder in Ladakh & Srinagar

Chapter 14 When the Earth Shook!

- Activity 1 Earthquake
- Activity 2 After Earthquake
- Activity 3 Rebuilding

Chapter 15 Blow Hot, Blow Cold

- Activity 1 Hot and Cold Air
- Activity 2 Flow of air

Chapter 16 Walls Tell Stories?

- Activity 1 Clean City
- Activity 2 Waste water Treatment

Chapter 17 Across the Wall

- Activity 1 A Visit to Fort

Chapter 18 No place for Us ?

- Activity 1 Remembering Old Days (Khedi Village)
- Activity 2 Sindhuri City
- Activity 3 Some Years Later in Mumbai City

Chapter 19 A Seed tells a a Farmer's Story

Activity 1 Old farming methods

Activity 2 Farming Methods after 20 years

Activity 3 Modern Farming Methods

Class 6

Chapter 1 Food: Where does It come from?

Activity 1 intro about food

Activity 2 herbivores, carnivores
, omnivores

Chapter 2 Components of Food

Activity 1 Carbohydrates

Activity 2 Protein

Activity 3 Lipid

Activity 4 Vitamins

Activity 5 Minerals

Chapter 3 Fiber to Fabric

Activity 1 What is Cotton?

Activity 2 Ginning and spinning of cotton

Activity 3 Weaving of cotton yarn

Activity 4 Sew of cotton yarn

Chapter 4 Sorting Materials into Groups

Activity 1 Sorting things based
on their shape

Activity 2 Sorting things based on shining

Activity 3 Sorting things based on softness

Activity 4 Sorting things based on solubility

Activity 5 Sorting Liquid things based
on their solubility in liquids

Activity 6 Sorting Liquid things based
on their density

Activity 7 Sorting Liquid things based
on their transparency

Chapter 5 Separation of Substances

Activity 1 Introduction of threading,
hand picking, sieving process

Activity 2 Sieving

Activity 3 Sedimentation decantation
and filtration

Activity 4 What is evaporation condensation
and saturated solution

Chapter 6 Changes around Us

Activity 1 Reversible and Irreversible
changes Part 1

Activity 2 Reversible and Irreversible
changes Part 2
and filtration

Activity 3 Reversible and Irreversible
changes Part 3

Chapter 7 Getting to Know Plants

- Activity 1 Types of plant
- Activity 2 Parts of Plant and their functions
- Activity 3 Types of Root
- Activity 4 Photosynthesis
- Activity 5 Introduction of flower
- Activity 6 Plant develops from the seed

Chapter 8 Body Movements

- Activity 1 Body movement of humans
- Activity 2 Body movement of animals
- Activity 3 Body movement of birds

Chapter 9 The Living Organisms and Their

- Activity 1 Adaptation for Desert
- Activity 2 Aquatic Habitat
- Activity 3 Adaption for mountains
- Activity 4 Grasslands Habitats
- Activity 5 Characteristics of Organisms

Chapter 10 Motion and Measurement of Distances

- Activity 1 Measurement
- Activity 2 Motion

Chapter 11 Light, Shadows and Reflections

- Activity 1 Transparent, translucent and opaque objects
- Activity 2 The making of pinhole camera

Chapter 12 Electricity and Circuits

- Activity 1 Types of Cell
- Activity 2 Types of circuit connections
- Activity 3 Electric Tournch and it's parts
- Activity 4 Electric Conductors and Insulators

Chapter 13 Fun with Magnets

- Activity 1 Types of magnet
- Activity 2 Magnetic and Non-Magnetic THings
- Activity 3 Poles of magnet
- Activity 4 Attraction and Replusion
- Activity 5 Magnetic compass
- Activity 6 Making of Magnet at home
- Activity 7 Disadvantages of magnet

Chapter 14 Water

- Activity 1 Where do we get water from?
- Activity 2 Disappearing of water
- Activity 3 Water cycle and How clouds are forms?
- Activity 4 Heavy Rain
- Activity 5 Water Harvesting

Chapter 15 Air around Us

- Activity 1 Empty bottle really empty?
- Activity 2 Presence of oxygen in air
- Activity 3 Presence of dust and smoke in air
- Activity 4 Presence of air in water and soil
- Activity 5 Component of air
- Activity 6 Photosynthesis process

Chapter 16 Garbage In, Garbage Out

Activity 1 Disposal of Different
types of waste

Activity 2 The making of Vermicompost

Activity 3 Recycling of paper

Class 7

Chapter 1 Nutrition in Plants

Activity 1 Photosynthesis

Chapter 2 Nutrition in Animals

Activity 1 Digestive system- Human

Activity 2 Digestive system- Cow

Activity 3 Digestive system- Amoeba

Chapter 3 Fiber to Fabric

Activity 1 Shearing and Scouring

Activity 2 Sorting and Dyeing

Activity 3 Process of weaving pool

Activity 4 Process of obtaining
silk from silkworm

Chapter 5 Acids, Bases and Salts

Activity 1 Photosynthesis

Activity 2 Identification of Acid and Base

Activity 3 Natural indicator : making
of hibiscus patra

Activity 4 Making of turmeric patra

Activity 5 Neutralization process

Activity 6 Ant sting

Chapter 6 Physical and Chemical Changes

Activity 1 Types of physical changes part- 1

Activity 2 Types of physical changes part- 2

Activity 3 A combustion of magnesium strip

Activity 4 Rusting of iron

Activity 5 Reactivity of Metals

Chapter 7 Weather, Climate and Adaptations of Animals to Climate

Activity 1 The Polar region

Activity 2 The Tropical Rain Forest

Chapter 8 Winds, Storms and Cyclones

- Activity 1 Air Exerts Pressure- Part 1-
By the example of Water Can
- Activity 2 Air Exerts Pressure- Part 2-
By the example of fire extinguisher
- Activity 3 Pressure in the air
- Activity 4 The Hot air always up
- Activity 5 The wind influx
- Activity 6 The seasonal Winds

Chapter 9 Soil

- Activity 1 Soil Profile
- Activity 2 Soil properties
- Activity 3 moisture in soil
- Activity 4 soil layers
- Activity 5 water absorption by soil

Chapter 10 Respiration in Organisms

- Activity 1 How to measure the breathing rate?
- Activity 2 How do we breathe?
- Activity 3 Aerobic respiration
- Activity 4 Aerobic respiration with less oxygen
- Activity 5 Anaerobic respiration
- Activity 6 Breathing: cockroach and earthworm
- Activity 7 breathing of fish in water
- Activity 8 Respiration in plants.

Chapter 11 Transportation in Animals and Plants

- Activity 1 Blood and its substances
- Activity 2 Circulatory system, pulse
, pulse rate and blood
circulation from heart
- Activity 3 Human heart ,section of heart
,blood flow and heart beat
- Activity 4 Excretory system in humans
- Activity 5 Transport of water and

Chapter 12 Reproduction in Plants

- Activity 1 root development from the
system cutting of plants
- Activity 2 potato plant sprouting from an 'eye'
- Activity 3 the Leaf of life(Bryophyllum)
- Activity 4 vegetative propagation occurs
in cactus
- Activity 5 Budding in yeast cells
- Activity 6 Fragmentation in spirogyra
- Activity 7 Asexual reproduction by
spore formation
- Activity 8 Reproduction through spore
formation in fern
- Activity 9 introduction to reproduction
organ in plant

Chapter 13 Motion and Time

- Activity 1 Slow motion or Fast motion
- Activity 2 Measurement Of Time
- Activity 3 What is speed and how to measure it?
- Activity 4 Measuring Speed meter per
second unit
- Activity 5 What is uniform motion and
non-uniform motion?
- Activity 6 Distance vs. Time graph for uniform
motion and non-uniform motion

Chapter 14 Electric Current and Its Effects

- Activity 1 Symbol of electric components
- Activity 2 Making of holder and its use
- Activity 3 Heating Effect
- Activity 4 Heating Effect
- Activity 5 Electromagnet
- Activity 6 Electric Bell

Chapter 15 Light

- Activity 1 Light travels along a straight line
- Activity 2 Usages of the concave mirror
- Activity 3 Usages of convex mirror
- Activity 4 The Newton's Disc
- Activity 5 What happens when light passes through the convex lens and concave lens
- Activity 6 Laws of reflection of light

Chapter 16 Water: A Precious Resource

- Activity 1 Water source on earth
- Activity 2 Water Cycle
- Activity 3 Water storage

Chapter 17 Forests: Our Lifeline

- Activity 1 Visit to a forest
- Activity 2 The food chain
- Activity 3 Food chain
- Activity 4 The balance between oxygen and carbon dioxide in the atmosphere.
- Activity 5 How to prevent soil erosion

Chapter 18 Waste Water Story

- Activity 1 Waste Water
- Activity 2 Water purification

Class 8

Chapter 1 Crop Production and Management

- Activity 1 Cultivation of crops by ploughing
- Activity 2 Sowing
- Activity 3 Irrigation
- Activity 4 Adding manure and fertilisers and Its protection from weedicide
- Activity 5 Harvesting

Chapter 2 Microorganisms Friend and Foe

- Activity 1 Microorganisms
- Activity 2 Vaccine
- Activity 3 Fungi
- Activity 4 Virus
- Activity 5 Food preservation

Chapter 3 Synthetic Fibers and Plastics

- Activity 1 What is Polymer?
- Activity 2 Types of Fiber
- Activity 3 Types of Plastic

Chapter 4 Materials : Metals and Non-Metals

- Activity 1 Physical property of metal and non metal
- Activity 2 Metals are good conductors of electricity
- Activity 3 Metals are hard, lustrous, malleable, ductile, sonorous
- Activity 4 Chemical properties of metal part 1

Continue...

Activity 5 Chemical properties of metal part 2

Activity 6 Chemical properties of non metal

Activity 7 Chemical properties of metal part 3

Activity 8 Reactions of acids with metals part 1(Iron)

Activity 9 Reactions of acids with metals part 2(Copper)

Activity 10 Relative reactivities of metals

Chapter 5 Coal and Petroleum

- Activity 1 Introduction of coal
- Activity 2 Processing of coal-tar and coke
- Activity 3 Petroleum refinery

Chapter 6 Combustion and Flame

- Activity 1 Combustion needs oxygen
- Activity 2 Heating water in paper cup
- Activity 3 Controlling fire
- Activity 4 Types of combustion
- Activity 5 Structure of flame

Chapter 7 Conservation of Plants and Animals

- Activity 1 National park
- Activity 2 Wild Life Sanctuary
- Activity 3 Forests: Our Lifeline
- Activity 4 Deforestation

Chapter 8 Cell - Structure and Functions

- Activity 1 Animal Cell
- Activity 2 Plant Cell
- Activity 3 Organ cells

Chapter 9 Reproduction in Animals

- Activity 1 Male reproductive organs
- Activity 2 Female reproductive organs
- Activity 3 Fertilization in human
- Activity 4 Development of embryo in humans
- Activity 5 Fertilization in frog
- Activity 6 Hydra (budding) asexual reproduction
- Activity 7 Amoeba (binary fission)

Chapter 10 Reaching The Age of Adolescence

- Activity 1 Intro about Glands
- Activity 2 Human sex determination- Male
- Activity 3 Human sex determination- Female

Chapter 11 Force and Pressure

- Activity 1 Information about Force
- Activity 2 Exploring Forces
- Activity 3 Force can change the state of motion
- Activity 4 Force can change the shape of object
- Activity 5 Contact Force
- Activity 6 Non- contact force

Chapter 12 Friction

- Activity 1 Introduction of Friction
- Activity 2 Factors affecting Friction
- Activity 3 Factors affecting Friction with examples
- Activity 4 The Advantages and Disadvantages of Friction
- Activity 5 Increasing and Reducing Friction
- Activity 6 Rolling Friction
- Activity 7 Fluid Friction

Chapter 13 Sound

- Activity 1 What create sound
- Activity 2 How voice box works
- Activity 3 Sound needs a medium to propagate
- Activity 4 ear structure and function

Chapter 14 Chemical Effects of Electric Current

- Activity 1 Conductivity of liquids
- Activity 2 Electroplating
- Activity 3 Electroplating- In realtime

Chapter 15 Some Natural Phenomena

- Activity 1 Types of charges, their interaction and Transfer of Charges
- Activity 2 Lightning
- Activity 3 Earthquake - its cause & effect
- Activity 4 Seismograph

Chapter 16 Light

- Activity 1 Laws of reflection
- Activity 2 Regular & Diffuse reflection
- Activity 3 Periscope
- Activity 4 Normal eye
- Activity 4 Myopia eye
- Activity 4 Hypermetropia eye
- Activity 4 Presbyopia eye

Chapter 17 Stars and The Solar System

- Activity 1 Day and Night on earth
- Activity 2 Change of season on earth
- Activity 3 Phases of the moon
- Activity 4 Introduction to solar system and it's planets
- Activity 5 Constellations
- Activity 6 Comets, meteors, and meteorites
- Activity 7 Artificial satellites

Chapter 18 Pollution of Air and Water

- Activity 1 Air pollution
- Activity 2 Water pollution
- Activity 3 waste water purification Plant

Class 9

Chapter 1 Matter in Our Surroundings

- Activity 1 Introduction about matters surrounding us
- Activity 2 Atomic structure of solid, liquid and gas
- Activity 3 Conversation process of solid to liquid to gas

Chapter 2 Is Matter Around Us Pure?

- Activity 1 what are elements, compound and mixtures
- Activity 2 Types of mixtures solid, liquid and gas
- Activity 3 What is a solution
- Activity 4 What is a suspension

Continue...

Activity 5 colloidal solution

Activity 6 separating the components of a mixture

Activity 7 Separation of two immiscible liquids by separating funnel

Activity 8 Separate mixture of two miscible liquids

Chapter 3 Atoms and Molecules

- Activity 1 Law of conservation of mass
- Activity 2 Law of constant proportions
- Activity 3 How does atoms exist and what is a molecules?
- Activity 4 Molecules of elements

Chapter 4 Structure of The Atom

- Activity 1 Introduction to Atom
- Activity 2 Thomson model, Rutherford experiment, and Bohr model
- Activity 3 Atomic Number and Mass Number
- Activity 4 Electronic Configuration of elements
- Activity 5 Valency and variable valency
- Activity 6 Nobel gases' electronic configuration
- Activity 7 Isotopes and Isobars

Chapter 5 The Fundamental Unit of Life

- Activity 1 Basic structure of Animal cell
- Activity 2 Basic structure of Plant cell
- Activity 3 Different cells of Human body

Chapter 6 Tissues

- Activity 1 Plant Tissue
- Activity 2 Simple permanent tissue
- Activity 3 Epidermal and Guard Cells
- Activity 4 Complex permanent tissue
- Activity 5 Animal Tissue
- Activity 6 Connective Tissue
- Activity 7 Muscular Tissue

Chapter 7 Diversity in Living Organisms

- Activity 1 Biological Classification
- Activity 2 The hierarchy of classification- Groups Detailed information of the five kingdom
- Activity 3 Classification of Plants- Information about five classes of plant
- Activity 4 Classification of Animals
- Activity 5 Classes of Vertebrates
- Activity 6 Nomenclature

Chapter 8 Motion

- Activity 1 Uniform motion
- Activity 2 Velocity vs Time graph for uniform motion
- Activity 3 Distance vs Time graph For uniform motion
- Activity 4 Non-Uniform motion
- Activity 5 Distance Vs Time Graph for non-uniform motion
- Activity 6 Velocity Vs Time non-uniform motion

Chapter 9 Force and Laws of Motion

- Activity 1 Balance and Unbalance forces
- Activity 2 First law of motion
- Activity 3 Inertia and mass
- Activity 4 Second law of motion
- Activity 5 Third law of motion
- Activity 6 Conservation of momentum

Chapter 10 Gravitation

- Activity 1 Universal Law of Gravitation
- Activity 2 Free Fall
- Activity 3 Mass and Weight
- Activity 4 Thrust and Pressure
- Activity 5 Archimedes Principle

Chapter 11 Work and Energy

- Activity 1 What is Work?
- Activity 2 The Concept of Energy
- Activity 3 Forms of Energy
- Activity 4 The understanding of Potential Energy
- Activity 5 The Law of conservation of Energy
- Activity 6 potential energy of an object at a height
- Activity 7 The Rate of Doing Work and Definition of 1 KWh

Chapter 12 Sound waves and longitudinal waves

- Activity 1 Production and propagation of sound
- Activity 2 Sound waves and longitudinal waves
- Activity 3 Frequency
- Activity 4 Sonic boom
- Activity 5 Echo
- Activity 6 Reverberation
- Activity 7 Uses of multiple reflection of sound
- Activity 8 Applications of ultrasound

Chapter 13 Why do we fall ill?

- Activity 1 Health and its failure
- Activity 2 Disease and its causes- part 1
- Activity 3 Disease and its causes- part 2
- Activity 4 Malaria
- Activity 5 Cholera
- Activity 6 Principles of Prevention
- Activity 7 Treatment

Chapter 14 Natural Resources

- Activity 1 The movement of air:winds
- Activity 2 The movement of hot air:winds
- Activity 3 Rain
- Activity 4 Air pollution
- Activity 5 water pollution
- Activity 6 Water cycle
- Activity 7 Nitrogen cycle
- Activity 8 Carbon cycle
- Activity 9 Oxygen cycle
- Activity 10 Ozone layer

Chapter 15 Improvement in Food Resources

- Activity 1 Improvement in crop yields
- Activity 2 Nutrient management
- Activity 3 Crop Protection
- Activity 4 Storage of grains
- Activity 5 Animal husbandry
- Activity 6 Polutary farming
- Activity 7 Fisheries
- Activity 8 Beekeeping

Class 10

Chapter 1 Chemical Reactions and Equations

- Activity 1 The process of burning of a magnesium ribbon
- Activity 2 Combination Reaction
- Activity 3 Decomposition Reaction
- Activity 4 Displacement Reaction
- Activity 5 Double Displacement Reaction
- Activity 6 Oxidation- Reduction

Chapter 2 Acids, Bases and Salts

- Activity 1 Acids and Bases in the laboratory
- Activity 2 How do acids and bases react with metals?
- Activity 3 How do metal carbonates and metal hydrogen carbonates react with acids?
- Activity 4 What do all acids and all bases have in common?

Continue...

- Activity 5 What happens to an acid or base in a water solution?
- Activity 6 Are the crystals of salts really dry?
- Activity 7 Reaction of metallic oxides with acids
- Activity 8 Is this an exothermic or endothermic process?
- Activity 9 How do acids and bases react with each other?

Chapter 3 Metals and Non-metals

- Activity 1 Physical Property of Metals
- Activity 2 Electric conductor and Insulator
- Activity 3 Chemical properties of Metal
- Activity 4 Metal reaction with Water
- Activity 5 Series of Metals
- Activity 6 Property of Ionic components
- Activity 7 Concentration of ore and Magnetic separation process
- Activity 8 Prevention of corrosion

Chapter 4 Carbon and Its Compounds

- Activity 1 Types of covalent bond
- Activity 2 Versatile nature of carbon
- Activity 3 Saturated and Unsaturated carbon compound
- Activity 4 Allotropes of carbon
- Activity 5 Homologous series and nomenclature of chlorine group
- Activity 6 Homologous series and nomenclature of hydroxyl group

Continue...

- Activity 7 Homologous series and nomenclature of aldehyde group
- Activity 8 Homologous series and nomenclature of carboxylic group
- Activity 9 homologous series and nomenclature of unsaturated compound
- Activity 10 Chemical property of carbon compound
- Activity 11 Soap And Detergent

Chapter 5 Periodic Classification of Elements

- Activity 1 Dobereiner's Triads of elements
- Activity 2 Newland's law of octaves
- Activity 3 Mendeleev's periodic table
- Activity 4 Modern Periodic Table

Chapter 6 Life Processes

- Activity 1 Nutrition in plants (autotrophs)
- Activity 2 Nutrition in single cell
- Activity 3 Human digestive system
- Activity 4 Types of Respiration
- Activity 5 Human respiratory system
- Activity 6 Functions of Heart

Continue...

Activity 7 Transport and exchange of O₂ and CO₂ in human

- Activity 8 Blood vessels, platelets and lymph
- Activity 9 Transportation of water and food in plant
- Activity 10 Excretory system in human
- Activity 11 Hemodialysis
- Activity 12 Excretion in plants

Chapter 7 Control and Coordination

- Activity 1 The Human Nervous System
- Activity 2 What happens in reflex actions?
- Activity 3 The human brain
- Activity 4 hormones in human and the endocrine glands
- Activity 5 Movement due to growth. (tropism)
- Activity 6 movement due to growth. nastism)
- Activity 7 hormones of the plant

Chapter 8 How do Organisms Reproduce?

- Activity 1 Binary fission
- Activity 2 Fragmentation
- Activity 3 Regeneration
- Activity 4 Budding
- Activity 5 Spore formation
- Activity 6 Vegetative propagation by Sprouting (Potato activity)
- Activity 7 Vegetative propagation by leaf in the Bryophyllum plant
- Activity 8 Sexual Reproduction in Flowering Plants
- Activity 9 Reproduction in Human Beings (male and female)

Chapter 9 Heredity and Evolution

- Activity 1 Introduction of heredity and DNA
- Activity 2 Mendel's law of segregation and the law of dominance
- Activity 3 Mendel's law of independent assortment
- Activity 4 Sex determination in the human
- Activity 5 Evolution and classification
- Activity 6 Evolution of wild cabbage
- Activity 7 Evolution of wild cabbage
- Activity 8 Evolution
- Activity 9 How do fossils form

Chapter 10 Light Reflection and Refraction

- Activity 1 Law of reflection
- Activity 2 Making process of concave and convex mirror
- Activity 3 Introduction
- Activity 4 Defination
- Activity 5 Nature, Position and Size of image formed by the Concave mirror
- Activity 6 Nature, Position and Size of image formed by the Convex mirror
- Activity 7 Reflection of Light

- Activity 8 Making process of concave and convex Lens
- Activity 9 Reflection by concave and convex Lens
- Activity 10 Image formulation by concave Lens
- Activity 11 Image formulation by convex Lens

Chapter 11 Human Eye and Colourful World

- Activity 1 Human eye
- Activity 2 Defects of vision
- Activity 3 Refraction and dispersion of light
- Activity 4 Primary and Secondary Rainbow
- Activity 5 Atmospheric refraction
- Activity 6 Star twinkle
- Activity 7 Advance sunrise - delayed sunset
- Activity 8 Scattering of light
- Activity 9 Why color of sky blue
- Activity 10 Color of sun at sunrise and sunset

Chapter 12 Electricity

- Activity 1 What is Current?
- Activity 2 OHM'S LAW
- Activity 3 Relation between R & I for constant V with different electric material.
- Activity 4 Resistivity
- Activity 5 Resistance of a system of resistor
- Activity 6 Resistors in Series
- Activity 7 Resistors in Parallel
- Activity 8 Heating Effect of Electric Current

Chapter 13 Magnetic Effects of Electric Current

- Activity 1 Magnetic Lines and Magnetic field creates in simple electric circuit
- Activity 2 Magnetic field effect on different Conductor with difefrent shapes Right -Hand Thumb Rule"
- Activity 3 Magnetic field due to a current in a solenoid
- Activity 4 Fleming's lefthand rule
- Activity 5 Electric motor
- Activity 6 Electromagnetic Induction
- Activity 7 Electric Generator

Chapter 14 Sources of Energy

- Activity 1 Types of Good sources of Energy
- Activity 2 Fossil Fuels
- Activity 3 Thermal Power Plant
- Activity 4 Hydro Power plant
- Activity 5 Biomass
- Activity 6 Wind Energy
- Activity 7 Solar Energy
- Activity 8 Solar Cooker
- Activity 9 Energy from Sea
- Activity 10 Wave Energy
- Activity 11 Ocean Thermal Energy
- Activity 12 Geothermal Energy
- Activity 13 Nuclear Energy

Chapter 15 Our Environment

Activity 1 Food chain

Activity 2 Food web

Activity 3 Ozone layer and its depletion

Chapter 16 Management of Natural Resources

Activity 1 Water storage by dams

Activity 2 Water Harvesting

Activity 3 Coal & Petroleum