

DR. M.K.K. ARYA MODEL SCHOOL, PANIPAT
SYLLABUS FOR THE SESSION 2018-19
SUBJECT: SCIENCE
CLASS: V
BOOK PRESCRIBED: NEW SCIENCE IN EVERYDAY LIFE
(OXFORD PUBLICATION)

UNITS FOR FIRST TERM

UNIT – 1: FOOD

- CHAPTER - 1 : GROWING PLANTS
- CHAPTER – 2 : FOOD AND HEALTH

UNIT - 2: MATERIALS

- CHAPTER – 3 : SAFETY AND FIRST AID
- CHAPTER - 4 : SOLIDS , LIQUIDS AND GASES
- CHAPTER – 5: ROCKS AND MINERALS

UNIT – 3: THE WORLD OF THE LIVING

- CHAPTER – 6 : ANIMALS : HABITAT AND ADAPTATIONS
- CHAPTER – 7 : SKELETAL SYSTEM AND NERVOUS SYSTEM

SYLLABUS TO BE COMPLETED IN APRIL, 2018

CHAPTER - 1: GROWING PLANTS

FIRST WEEK (APRIL 2 – APRIL 7)

TOPIC: - LOOKING AROUND

- SUBTOPIC : SAVING OUR RESOURCES

TOPIC: - GROWING PLANTS

- SUBTOPICS :- a. GERMINATION
- b. DISPERSAL

SECOND WEEK (APRIL 9 – APRIL 14)

TOPIC: - GROWING PLANTS

- SUBTOPICS: - a. FROM STEMS
- b. FROM ROOTS
- c. FROM LEAVES

TOPIC: - AGRICULTURE

- SUBTOPICS: - a. CROPS
- b. HARVESTING
- c. STAGES OF AGRICULTURE
- d. RABI AND KHARIF CROPS

CHAPTER - 2: FOOD AND HEALTH

THIRD WEEK (APRIL 16 – APRIL 21)

TOPIC: FOOD AND ITS COMPONENTS

- SUBTOPICS: - a. NUTRIENTS
- b. WATER AND ROUGHAGE

TOPIC: - BALANCED DIET

- SUBTOPIC: - FOOD INVOLVED

FOURTH WEEK (APRIL 23 – APRIL 28)

TOPIC: - DISEASES

- SUBTOPICS: - a. COMMUNICABLE
- b. NON –COMMUNICABLE

SYLLABUS TO BE COMPLETED IN MAY, 2018

FIRST WEEK (APRIL 30 – 5 MAY)

TOPIC: - PREVENTION FROM DISEASES

- SUBTOPICS: - a. HYGIENE
- b. VACCINATION

SECOND WEEK (MAY 7 – MAY 12)

CHAPTER – 3: SAFETY AND FIRST AID

TOPIC: - SAFETY FROM FIRE

- SUBTOPICS :- a. FIRE HAZARDS
- b. METHODS OF CONTROLLING FIRE

THIRD WEEK (MAY 14 – MAY 19)

REVISION FOR FIRST PERIODIC TEST

FIRST PERIODIC TEST (MAY 18, 2018)

FOURTH WEEK (MAY 21 – MAY 26)

TOPIC: - FIRST AID

- SUBTOPICS: - a. CUTS AND SCRATCHES
- b. FRACTURE AND BURNS
- c. NOSE BLEEDS AND SPRAINS
- d. ANIMAL BITE

FIFTH WEEK (MAY 28 – MAY 31)

CHAPTER - 4: SOLIDS, LIQUIDS AND GASES

TOPIC: - PARTICLE ARRANGEMENT IN MATTER

TOPIC: - CHANGE OF STATE

- SUBTOPICS: - a. EVAPORATION
- b. CONDENSATION
- c. MELTING
- d. SOLIDIFICATION

SYLLABUS TO BE COMPLETED IN JULY, 2018

CHAPTER - 4: SOLIDS, LIQUIDS AND GASES

FIRST WEEK (JULY 2 – JULY 7)

TOPIC: - SOLUTIONS

- SUBTOPICS: - a. SOLUTE AND SOLVENT
- b. TYPES OF SOLUTIONS
- c. MISCIBLE AND IMMISCIBLE LIQUIDS

TOPIC: - CHANGES AROUND US

- SUBTOPIC:- a. PHYSICAL CHANGE
- b. CHEMICAL CHANGE

TOPIC: - EXPANSION AND CONTRACTION

SECOND WEEK (JULY 9 – JULY 14)

CHAPTER 5:- ROCKS AND MINERALS

TOPIC: - ROCKS

- SUBTOPIC: - a. IGNEOUS ROCKS
- b. SEDIMENTARY ROCKS
- c. METAMORPHIC ROCKS

THIRD WEEK (JULY 16 – JULY 21)

TOPIC: - MINERALS

- SUBTOPICS : a. MAGNET
- b. USES OF MINERALS
- c. COAL AND PETROLEUM

FOURTH WEEK (JULY 23 – JULY 28)

CHAPTER 6:- ANIMALS: HABITAT AND ADAPTATION

TOPIC: - HABITAT

- SUBTOPICS :- a. FORESTS AND DESERTS
- b. POLAR REGIONS AND MOUNTAINS
- c. OCEAN AND FRESH WATER

TOPIC: - ADAPTATIONS

- SUBTOPICS : BODY COVERINGS
 - Scales
 - Shell
 - Wool or fur
 - Feathers
 - Camouflage

SYLLABUS TO BE COMPLETED IN AUGUST, 2018

FIRST WEEK (JULY 30 – AUGUST 4)

TOPIC: - ORGANS FOR BREATHING

TOPIC: - ORGANS FOR MOVEMENT

TOPIC: - EATING HABITS

- SUBTOPICS :- a. CARNIVORES
b. OMNIVORES
c. HERBIVORES

SECOND WEEK (AUGUST 6 – AUGUST 11)

CHAPTER – 7:- SKELETON SYSTEM AND NERVOUS SYSTEM

TOPIC: - SKELETAL SYSTEM

- SUBTOPICS: - a. SKULL AND RIBCAGE
b. BACKBONE
c. LIMBS AND GIRDLES

THIRD WEEK (AUGUST 13 – AUGUST 18)

TOPIC: - JOINTS

- SUBTOPICS: - a. BALL AND SOCKET JOINT
b. HINGE JOINT

c. PIVOT JOINT

d. GLIDING JOINT

TOPIC : CARTILAGE

TOPIC: - MUSCLES

- SUBTOPICS: - a. CARDIAC MUSCLES
b. SKELETAL MUSCLES
c. SMOOTH MUSCLES

FOURTH WEEK (AUGUST 20 – AUGUST 25)

TOPIC: - NERVOUS SYSTEM

- SUBTOPICS: - a. BRAIN
b. SPINAL CORD
c. NERVES

TOPIC: - REFLEX ACTIONS

FIFTH WEEK (AUGUST 27 – AUGUST 31)

TOPIC: - SENSE ORGANS

- SUBTOPICS: - a. PARTS OF EYE
b. PARTS OF AN EAR
c. NOSE
d. TONGUE AND SKIN

SEPTEMBER – REVISION FOR MID TERM

ACTIVITIES

CLASS - V

Term-I

APRIL: 1. To demonstrate the process of germination through potato buds.

2. To detect the presence of nutrients in different food items.

MAY: 3. To show the process of condensation and melting.

4. To show the difference between physical and chemical changes.

JULY: 5. Demonstration of miscible and immiscible liquids.

6. Demonstration of properties of a magnet.

AUGUST: 7. To study the different parts of an eye and ear (model).

UNITS FOR SECOND TERM

UNIT – 4:- MOVING THINGS, PEOPLE AND IDEAS

- CHAPTER - 8:- MEASUREMENT
- CHAPTER – 9:- FORCE AND ENERGY

UNIT – 5: - NATURAL PHENOMENA

- CHAPTER – 10:- AIR AND WATER
- CHAPTER – 11:- EARTH, SUN AND MOON
- CHAPTER – 12:- LIGHT AND SHADOWS
- CHAPTER – 13:- VOLCANOES, EARTHQUAKES AND WAVES TIDAL

UNIT – 6:- NATURAL RESOURCES

- CHAPTER – 14:- OUR ENVIRONMENT

SYLLABUS TO BE COMPLETED IN OCTOBER, 2018

FIRST WEEK (OCTOBER 1 – OCTOBER 6)

CHAPTER 8:- MEASUREMENT

TOPIC: - HISTORY OF MEASUREMENT

TOPIC: - MEASUREMENT

- SUBTOPIC: - a. LENGTH AND MASS

SECOND WEEK (OCTOBER 8 – OCTOBER 13)

TOPIC: - MEASUREMENT

- SUBTOPIC: - a. CAPACITY AND TIME
b. TEMPERATURE

CHAPTER – 9:- FORCE AND ENERGY

TOPIC: - FORCE

TOPIC: - TYPES OF FORCES

- SUBTOPICS: - a. GRAVITATIONAL FORCE
b. MAGNETIC FORCE

THIRD WEEK (OCTOBER 15 – OCTOBER 20)

TOPIC: - TYPES OF FORCES

SUBTOPICS: - a. ELECTROSTATIC FORCE b. BUOYANT FORCE

TOPIC: - FRICTIONAL FORCE

- SUBTOPIC: - ADVANTAGES AND DISADVANTAGES OF FRICTIONAL FORCE

FOURTH WEEK (OCTOBER 22 – OCTOBER 27)

TOPIC: - ENERGY

- SUBTOPICS: - a. TYPES OF ENERGY
b. RENEWABLE AND NON-RENEWABLE SOURCES

TOPIC: - SIMPLE MACHINES

- SUBTOPIC: - a. LEVER
b. WHEEL AND AXLE

SYLLABUS TO BE COMPLETED IN NOVEMBER, 2018

FIRST WEEK (OCTOBER 29 – NOVEMBER 3)

TOPIC: - SIMPLE MACHINES

- SUBTOPICS :- c. PULLEY AND INCLINED PLANE
d. WEDGE AND SCREW

CHAPTER 10 – AIR AND WATER

TOPIC: AIR

- SUBTOPIC: COMPONENTS OF AIR

TOPIC: ATMOSPHERE

- SUBTOPIC: LAYERS OF ATMOSPHERE

SECOND WEEK (NOVEMBER 5 – NOVEMBER 10)

TOPIC: PROPERTIES OF AIR

TOPIC: WATER

- SUBTOPIC: - REMOVING IMPURITIES FROM WATER
➤ REMOVING INSOLUBLE IMPURITIES

THIRD WEEK (NOVEMBER 12 – NOVEMBER 17)

TOPIC: WATER

- SUBTOPIC: - REMOVING IMPURITIES FROM WATER
 - REMOVING SOLUBLE IMPURITIES

TOPIC: - PURIFYING DRINKING WATER

SUBTOPICS: - a. BOILING

B. CHLORINATION

CHAPTER – 11: EARTH, SUN AND MOON

TOPIC: SOLAR SYSTEM

TOPIC: EARTH

- SUBTOPIC : - STRUCTURE OF THE EARTH

FOURTH WEEK (NOVEMBER 19 – NOVEMBER 24)

TOPIC: - SUN

TOPIC: - MOON

- SUBTOPICS: - a. SURFACE OF THE MOON
 - b. PHASES OF THE MOON

FIFTH WEEK (NOVEMBER 26 – DECEMBER 1)

TOPIC: - LANDING ON THE MOON

TOPIC: - ECLIPSE

- SUBTOPICS: - a. SOLAR ECLIPSE
 - b. LUNAR ECLIPSE

SYLLABUS TO BE COMPLETED IN DECEMBER, 2018

FIRST WEEK (DECEMBER 3 – DECEMBER 8)

TOPIC: ARTIFICIAL SATELLITES

TOPIC: INDIA'S MISSION TO THE MOON

CHAPTER 12:- LIGHT AND SHADOW

TOPIC: MATERIALS AND LIGHT

- SUBTOPIC:-a) TRANSPARENT MATERIALS
 - b) TRANSLUCENT MATERIALS
 - c) OPAQUE MATERIALS

SECOND WEEK (DECEMBER 10 – DECEMBER 15)

REVISION FOR SECOND PERIODIC TEST

SECOND PERIODIC TEST (DECEMBER 17, 2018)

THIRD WEEK (DECEMBER 17 – DECEMBER 22)

TOPIC:-FORMATION OF SHADOW

TOPIC: FEATURES OF A SHADOW

FOURTH WEEK (DECEMBER 24 – DECEMBER 29)

CHAPTER-13:-VOLCANOES, EARTHQUAKE AND TIDAL WAVES

TOPIC:-VOLCANOES AND THEIR TYPES

- SUBTOPICS: - a. ACTIVE VOLCANOES
 - b. DORMANT VOLCANOES
 - c. EXTINCT VOLCANOES

TOPIC: EARTHQUAKE

SYLLABUS TO BE COMPLETED IN JANUARY, 2019

THIRD WEEK (JANUARY 14 – JANUARY 19)

TOPIC: MEASURING AND EARTHQUAKE

TOPIC: EFFECTS OF AN EARTGQUAKE

TOPIC: TIDAL WAVES AND TSUNAMI

FOURTH WEEK (JANUARY 21 – JANUARY 27)

CHAPTER-14:-OUR ENVIRONMENT

TOPIC: POLLUTION

- SUBTOPIC: a. AIR AND WATER POLLUTION
 - b. LAND AND NOISE POLLUTION

ACTIVITIES

CLASS – V

Term-II

OCTOBER: 1. Demonstration of various instruments used for measurement.

2. Demonstration of different types of forces.

3. Demonstration of different types of simple machines.

NOVEMBER: 4. To study the composition of air and layers of atmosphere (model).

5. Demonstration of various properties of air.

6. Demonstration of effect and uses of air pressure.

DECEMBER: 7. To study different methods to remove soluble and insoluble impurities.

8. Demonstration of the process of loading and chlorination.