

DR. M.K.K. ARYA MODEL SCHOOL , PANIPAT

SYLLABUS FOR THE SESSION 2017-18

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 UPTO APRIL , 2017

CHAPTER - 1 : GROWING PLANTS

SECOND WEEK

TOPIC :- LOOKING AROUND

SUBTOPICS :- SAVING OUR RESOURCES

TOPIC :- GROWING PLANTS

SUBTOPICS :- a. GERMINATION

b. DISPERSAL

THIRD WEEK

TOPIC :- GROWING PLANTS

SUBTOPICS :- a. FROM STEMS

b. FROM ROOTS

C. FROM LEAVES

TOPIC : - AGRICULTURE

SUBTOPIC :- a. CROPS

b. HARVESTING

c . STAGES OF AGRICULTURE

d . RABI AND KHARIF CROPS

CHAPTER - 2 : FOOD AND HEALTH

FOURTH WEEK

TOPIC : FOOD AND ITS COMPONENTS

SUBTOPICS : - a . NUTRIENTS

b. WATER AND ROUGHAGE

TOPIC : - BALANCED DIET

SUBTOPIC :- FOOD INVOLVED

FIFTH WEEK

TOPIC : - DISEASES

SUBTOPIC : - a. COMMUNICABLE

b. NON –COMMUNICABLE

TOPIC : - PREVENTION FROM DISEASES

SUBTOPIC :- a. HYGIENE

B . VACCINATION

PARENT TEACHER MEET - APRIL -29 , 2017

SYLLABUS TO BE COMPLETED UPTO MAY, 2017

CHAPTER – 3 : SAFETY AND FIRST AID

FIRST WEEK

TOPIC :- SAFETY FROM FIRE

SUBTOPICS :- a. FIRE HAZARDS

b. METHODS OF CONTROLLING FIRE

TOPIC :- FIRST AID

SUBTOPICS :- a. CUTS AND SCRATCHES

b. FRACTURE AND BURNS

c. NOSEBLEEDS AND SPRAINS

d. ANIMAL BITE

SECOND WEEK

REVISION FOR FIRST PERIODIC TEST

THIRD WEEK

CHAPTER - : 4 SOLID , LIQUIDS AND GASES

TOPIC :- PARTICLE ARRANGEMENT IN MATTER

TOPIC :- CHANGE OF STATES

SUBTOPIC: - a. EVAPORATION

b. CONDENSATION

C. MELTING

D. SOLIDIFICATION

FOURTH WEEK

TOPIC :- SOLUTION

SUBTOPICS :- a. SOLUTE AND SOLVENT

b. SOLID , LIQUID AND GASES

c. MISCIBLE AND IMMISCIBLE LIQUIDS

TOPIC :- CHANGES AROUND US

SUBTOPIC: a. PHYSICAL CHANGE

B. CHEMICAL CHANGE

TOPIC :- EXPANSION AND CONTRACTION

FIRST PERIODIC TEST - MAY 20 TO MAY 25 , 2017

PARENT TEACHER MEET – MAY -29 , 2017

SYLLABUS TO BE COMPLETED UPTO JULY, 2017

CHAPTER 5 :- ROCKS AND MINERALS

SECOND WEEK

TOPIC :- ROCKS

SUBTOPIC:- a. IGNEOUS ROCKS

b. SEDIMENTARY ROCKS

C. METAMORPHIC ROCKS:-

THIRD WEEK

TOPIC :- MINERALS

SUBTOPIC : a. MAGNET

b. USES OF MINERALS

C. COAL AND PETROLEUM

CHAPTER 6 :- ANIMALS : HABITAT AND ADAPTATIONS

FOURTH WEEK

TOPIC :- HABITAT

SUBTOPICS :- a. FORESTS AND DESERTS

b. POLAR REGIONS AND MOUNTAINS

c. OCEAN AND FRESH WATER

TOPIC :- ADAPTATIONS

SUBTOPICS :- a. BODY COVERING
b. SHELL , WOOL
C. FUR AND FEATHERS
d. CAMOUFLAGE

FIFTH WEEK

TOPIC :- ORGANS FOR BREATHING

TOPIC :- ORGANS FOR MOVEMENT

TOPIC :- EATING HABITS

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

. SYLLABUS TO BE COMPLETED UPTO AUGUST, 2017

CHAPTER – 7 :- SKELETON

FIRST WEEK

TOPIC :- SKELETAL SYSTEM

SUBTOPIC : - a. SKULL AND RIBCAGE
b. BACKBONES
C. LIMBS AND GIRDLES

SECOND WEEK

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

THIRD WEEK

TOPIC : - NERVOUS SYSTEM

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

TOPIC :- REFLEX ACTIONS

FOURTH WEEK

TOPIC :- SENSE ORGANS

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

FIFTH WEEK – REVISION FOR FIRST MID TERM

SYLLABUS TO BE COMPLETED UPTO SEPTEMBER , 2017

FIRST WEEK – REVISION FOR FIRST MID TERM

SECOND WEEK - REVISION FOR FIRST MID TERM

FIRST MID TERM ASSESSMENT- SEPTEMBER 15, 2017

Activities

Class V

Term-I

1. To study the structure of a seed.
2. To demonstrate the process of germination through potato buds.
3. To detect the presence of nutrients in different food items.
4. To find out the presence of various ingredients in a given food item.
5. Demonstration of fire extinguisher (functioning).
6. To find the difference between sling and splint.
7. Demonstration of first aid tips.
8. To show the process of condensation, solidification and melting.
9. To show the difference between physical and chemical changes.
10. Demonstration of various types of solutions.
11. Demonstration of miscible and immiscible liquids.
12. Demonstration of properties of a magnet.
13. Identification of various types of bones and joints of human being.
14. To demonstrate special features of various animal (through specimens).
15. Demonstration of three parts of a brain (Model).
16. Demonstration of reflex actions.
17. 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 TIDAL WAVES

UNIT – 6 :- NATURAL RESOURCES

CHAPTER- 14 :- OUR ENVIRONMENT

SYLLABUS TO BE COMPLETED UPTO OCTOBER, 2017

CHAPTER – 8 :- MEASUREMENT

FIRST WEEK

TOPIC :- – HISTORY OF MEASUREMENT

TOPIC :- MEASUREMENT.

SUBTOPIC:- a. LENGTH AND MASS

SECOND WEEK

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

TOPIC :- TYPES OF FORCES

SUBTOPICS:- a. ELECTROSTATIC FORCE

b. BUOYANT FORCE

TOPIC:- FRICTIONAL FORCE

SUBTOPIC:- ADVANTAGES AND DISADVANTAGES OF FRICTIONAL FORCE

FOURTH WEEK

TOPIC :- ENERGY

SUBTOPIC:- a. TYPES OF ENERGY

b. RENEWABLE AND NON-RENEWABLE SOURCES

TOPIC:- SIMPLE MACHINES

SUBTOPIC:- a. LEVER

b. WHEEL AND AXLE

C. PULLEY AND INCLINED PLANE

d. WEDGE AND SCREW

TOPIC : AIR

TOPIC : COMPONENTS OF AIR

FIFTH WEEK

CHAPTER 10 – AIR AND WATER

TOPIC : ATMOSPHERE

SUBTOPIC : LAYERS OF ATMOSPHERE

SYLLABUS TO BE COMPLETED UPTO NOVEMBER, 2017

FIRST WEEK

TOPIC : PROPERTIES OF AIR

TOPIC : WATER

SUBTOPIC:- REMOVING IMPURITIES FROM WATER.

SECOND WEEK

TOPIC : PURIFYING DRINKING WATER.

SUBTOPIC: - a. BOILING

B. CHLORINATION

CHAPTER – 11 : EARTH , SUN AND MOON

TOPIC : SOLAR SYSTEM

TOPIC : EARTH

SUBTOPIC : - STRUCTURE OF EARTH

TOPIC : - SUN AND MOON

SUBTOPICS :- SURFACE AND PHASES OF THE MOON

THIRD WEEK

TOPIC :- LANDING ON THE MOON

TOPIC :- ECLIPSES

SUBTOPICS :- a. SOLAR ECLIPSES

b. LUNAR ECLIPSES

FOURTH WEEK

TOPIC: ARTIFICIAL SATELLITES

TOPIC : INDIA MISSION TO MOON

CHAPTER 12 :- LIGHT AND SHADOW

TOPIC : MATERIALS AND LIGHT

SUBTOPIC:-a) TRANSPARENT MATERIALS

b)TRANSLUCENT MATERIALS

c) OPAQUE MATERIALS

FIFTH WEEK

TOPIC:-FORMATION OF SHADOW

TOPIC : FEATURES OF A SHADOW

SYLLABUS TO BE COMPLETED UPTO DECEMBER, 2017

CHAPTER-13:-VOLCANOES,EARTHQUAKE AND TIDAL WAVES

FIRST WEEK

TOPIC:-VOLCANOES AND THEIR TYPES

SUBTOPIC:-a)ACTIVE VOLCANOES

b)EXTINCT VOLCANOES

c)DORMANT VOLCANOES

SECOND WEEK

TOPIC: EARTHQUAKE AND ITS EFFECT

TOPIC: TIDAL WAVES AND TSUNAMI

THIRDWEEK

CHAPTER-14:-OUR ENVIRONMENT

TOPIC: POLLUTION

SUBTOPIC:AIR AND WATER POLLUTION

LAND AND NOISE POLLUTION

FOURTH WEEK - REVISION FOR SECOND PERIODIC TEST.

FIFTH WEEK - REVISION FOR SECOND PERIODIC TEST.

SECOND PERIODIC TEST – DECEMBER 11 TO DECEMBER 16 , 2017

PARENT TEACHER MEET – DECEMBER 30 , 2017

Term-II

- 1. Demonstration of various instruments used for measurement.**
- 2. Demonstration of different types of forces.**
- 3. Demonstration of different types of simple machines.**
- 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.**
- 7. To study different methods to remove soluble and insoluble impurities.**
- 8. Demonstration of the process of loading and chlorination.**

9. Study of the solar system, phases of moon and various types of eclipses. (through model or chart).
10. Study of different layers of the Earth (Model).
11. Identification of different types of objects on the basis of amount of light that pass through them.
12. To study the formation of a shadow.

REVISION MONTH – JANUARY – FEBRUARY - 2018

SECOND TERM ASSESSMENT – FEBRUARY 20 , 2018

DECLARATION OF RESULT – MARCH 31 , 2018