

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

**SYLLABUS FOR THE SESSION 2017-18**

**SUBJECT : SCIENCE**

**CLASS : IV**

**BOOK PRESCRIBED : NEW SCIENCE IN EVERYDAY LIFE**

**(OXFORD PUBLICATION)**

**UNITS FOR FIRST TERM**

- CHAPTER - 1 : Food – Our Basic Need
- CHAPTER – 2 : Digestion and the role of microbes
- CHAPTER – 3 : Clothes we wear
- CHAPTER - 4 :- Solids , Liquids and Gases
- CHAPTER – 5 :- Soil
- CHAPTER – 6 : The Green Plants
- CHAPTER – 7 - : How Plants Survive

**SYLLABUS TO BE COMPLETED UPTO APRIL , 2017**

**CHAPTER - 1 : GROWING PLANTS**

**SECOND WEEK**

**TOPIC :- Looking Around**

**SUBTOPICS :- Pollution**

**TOPIC :- Food**

**SUBTOPICS :- a. Food Group**

**b. Roughage and Water**

**THIRD WEEK**

**TOPIC :- Food**

**SUBTOPICS :- a. Balanced Diet**

- b. Preservation of food
- C. Rest , Posture and Exercise

**CHAPTER - 2 : Digestion and the role of microbes**

**FOURTH WEEK**

**TOPIC : Teeth**

- SUBTOPICS : - a . Sets of teeth**  
**b. Types of teeth**  
**c. Parts of teeth**  
**d. Care of teeth**

**TOPIC : - Teeth**

**SUBTOPIC :- Protection of teeth**

**FIFTH WEEK**

**TOPIC : - The Digestive system**

- SUBTOPIC : - a. Process of Digestion**  
**b. Healthy Eating Habits**

**TOPIC : - Microbes**

- SUBTOPIC :- a. Types of microbes**  
**B . Uses and harmful effects of Microbes**

**PARENT TEACHER MEET - APRIL -29 , 2017**

**SYLLABUS TO BE COMPLETED UPTO MAY, 2017**

**CHAPTER – 3 : Clothes we Wear**

**FIRST WEEK**

**TOPIC :- Clothes**

**SUBTOPICS :- Need For Clothes**

**TOPIC :- Fibers and Fabrics**

**SUBTOPICS :- Natural Fibers and Synthetic Fibers**

**TOPIC :- Care of Clothes**

**SUBTOPICS :- a. Care of woolen clothes**

**b. Care of silk clothes**

## **SECOND WEEK**

**REVISION FOR FIRST PERIODIC TEST**

## **THIRD WEEK**

**CHAPTER - : 4 SOLID , LIQUIDS AND GASES**

**TOPIC :- States of Matter**

**SUBTOPIC: - a. Solids**

**b. Liquids**

**C. Gases**

**TOPIC :- Changes of States**

**SUBTOPICS :- a. Evaporation**

**b. Condensation**

**c. Solidification**

## **FOURTH WEEK**

**TOPIC :- Solution**

**SUBTOPIC: a. Solute**

**b. Solvent**

**TOPIC :- Separation of Substances**

**SUBTOPIC: a. Soluble Substances**

**b. Insoluble Substances**

**c. Sedimentation , Decantation**

**d. Filtration**

**FIRST PERIODIC TEST - MAY 20 TO MAY 25 , 2017**

**PARENT TEACHER MEET – MAY -29 , 2017**

**SYLLABUS TO BE COMPLETED UPTO JULY, 2017**

**CHAPTER 5 :- Soil**

**SECOND WEEK**

**TOPIC :- Formation of Soil**

**SUBTOPIC:- a. Weathering**

**b. Importance of soil**

**THIRD WEEK**

**TOPIC :- Composition of Soil**

**SUBTOPIC : Sand , Silt and Clay**

**TOPIC :- Types of Soil**

**SUBTOPIC : a. Sandy Soil**

**b. Clayey Soil**

**c. Loamy Soil**

**FOURTH WEEK**

**TOPIC :- Soil Profile**

**SUBTOPICS :- a. Top Soil**

**b. Sub Soil**

**c. Bed Rock**

**TOPIC :- Soil Erosion**

**TOPIC : Soil Conservation**

**FIFTH WEEK**

**CHAPTER 6 :- The Green Plants**

**TOPIC :- Leaf**

**SUBTOPICS :- a. Parts of a leaf**

**b. Functions of a leaf**

**TOPIC :- How do leaves make food?**

**SUBTOPICS :- a. Photosynthesis**

**b. Storage of food by Plants**

**TOPIC :- Interdependence Of Plants and Animals.**

**SUBTOPIC :- Food Chain**

**SYLLABUS TO BE COMPLETED UPTO AUGUST, 2017**

**CHAPTER – 7 :- How Plants Survive?**

**FIRST WEEK**

**TOPIC :- Types of plants**

**SUBTOPIC : - a. Terrestrial Plants**

**b. Aquatic Plants**

**C. Insectivorous plants**

**d. Non – Green Plants**

**SECOND WEEK**

**TOPIC:- Useful plants**

**THIRD WEEK**

**FOURTH WEEK**

**FIFTH WEEK**

**THIRD TO FIFTH WEEK – REVISION FOR MID- TERM – 1**

**SYLLABUS TO BE COMPLETED UPTO SEPTEMBER , 2017**

**FIRST WEEK – REVISION FOR FIRST MID TERM**

**SECOND WEEK - REVISION FOR FIRST MID TERM**

**MID TERM ASSESSMENT- SEPTEMBER 15, 2017**

**Activities**

**Class – IV**

### Term-I

1. To show the presence of nutrients in given food items.
2. Demonstration of various methods of preservation.
3. Demonstration of various types of teeth and parts of a tooth (Model / Chart).
4. Demonstration of digestive system (Model / Chart).
5. Demonstration of different types of fabrics.
6. Demonstration of arrangement of particles in solids, liquids and gases (Chart).
7. To show the process of change of states by melting, evaporation and condensation.
8. Demonstration of various types of solutions and its components (solute and solvent).
9. Demonstration of soluble and insoluble substances.
10. To study different methods of separation of insoluble impurities (filtration, sedimentation and decantation).
11. Demonstration of different layers of soil (Model / Chart).
12. Demonstration of various parts of a leaf.
13. To detect the presence of starch in given food sample.
14. Demonstration of adaptive features of various plants (Specimens).
15. To study a food chain (Chart).

## **UNITS FOR SECOND TERM**

**CHAPTER - 8 :- Circulatory and Excretory System**

**CHAPTER – 9 :- Animals and their young ones.**

**CHAPTER – 10 :- How animals survive**

**CHAPTER- 11 :- Force , Work and Energy**

**CHAPTER – 12 :- Air , Water and Weather**

**CHAPTER – 13 :- The Solar System**

## **UNIT – 6 :- NATURAL RESOURCES**

**CHAPTER- 14 :- Keeping Our Earth Green**

## **SYLLABUS TO BE COMPLETED UPTO OCTOBER, 2017**

**CHAPTER – 8 :- Circulatory and Excretory System**

### **FIRST WEEK**

**TOPIC :- – Circulatory System**

**SUBTOPICS:- a. Heart**

**b. Blood**

**C. Blood Vessels**

### **SECOND WEEK**

**TOPIC :- Excretory System**

**SUBTOPIC:- Excretion**

**CHAPTER – 9 :- Animals and their young ones**

**TOPIC :- Egg Laying Animals**

**SUBTOPICS:- a. Birds**

**b. Hen**



**c. Parts of an egg**

**THIRD WEEK**

**TOPIC :- Egg Laying Animals**

**SUBTOPICS:- a. Frog**

**b. Butterfly**

**TOPIC:- Animals that give birth to young ones**

**SUBTOPIC:- Mammals**

**FOURTH WEEK**

**TOPIC:- Animals that look after their young ones.**

**TOPIC :- Types of animals**

**SUBTOPIC:- a. Animals with backbone**

**FIFTH WEEK**

**TOPIC :- Types of animals**

**SUBTOPIC:- Animals without backbone**

**SYLLABUS TO BE COMPLETED UPTO NOVEMBER, 2017**

**FIRST WEEK**

**Chapter – 10 :- How Animals Survive**

**TOPIC : Where Animals Live**

**SUBTOPIC:-** a. Terrestrial Animals  
b. Aquatic Animals  
c. Arboreal Animals  
d. Aerial Animals  
e. Amphibians

**TOPIC :** What animals Eat ?

**SUBTOPIC: -** a. Herbivores  
b. Carnivores  
c. Omnivores  
d. Parasites  
e. Scavengers

### **SECOND WEEK**

**TOPIC :** Adaptation for protection

**SUBTOPIC : -** Camouflaging

**TOPIC : -** Animals in danger

**SUBTOPICS :-** a. Extinct Animals  
b. Endangered Animals

### **THIRD WEEK**

### **Chapter – 11:- Force Work and Energy**

**TOPIC :-** Types of forces

**SUBTOPICS :-** a. Gravity  
b. Friction

**TOPIC :-** Work and Machines

**SUBTOPICS :-** a. Lever  
b. Pulley

- c. Wheel and Axle
- d. Inclined Plane
- e. Screw and Wedge

#### **FOURTH WEEK**

**TOPIC: Energy and its Sources**

**SUBTOPIC : a. Sun**

**b. Wind**

**c. Water**

**CHAPTER 12 :- Air , Water and Weather**

**TOPIC : Role of Sun**

**SUBTOPIC:-a. Rotations**

**b. Revolutions**

**c. Seasons**

**d. Humidity**

#### **FIFTH WEEK**

**TOPIC : Air**

**SUBTOPIC:-a) Land Breeze**

**b)Sea Breeze**

**TOPIC:- Water**

**SUBTOPIC:-a) Evaporation**

**b) Condensation**

**SYLLABUS TO BE COMPLETED UPTO DECEMBER, 2017**

**CHAPTER-12:- Air , Water and Weather**

#### **FIRST WEEK**

**TOPIC:-Water Cycle**

**TOPIC :- Purification of Water**

**SUBTOPIC:-a) Boiling**

**b) Sedimentation and Decantation**

**c) Filtration**

**d ) Chlorination**

**TOPIC :- Uses of Water**

**SECOND WEEK**

**CHAPTER – 13 :- THE SOLAR SYSTEM**

**TOPIC: The Solar System**

**SUBTOPIC: a. Planets**

**b. Moon and Satellite**

**c. Stars and Constellations**

**TOPIC: Rotation and Revolution**

**SUBTOPIC: a. Day and Night**

**b. Seasons**

**THIRDWEEK**

**CHAPTER-14:- KEEPING OUR EARTH GREEN**

**TOPIC: Importance of trees**

**SUBTOPIC: Deforestation**

**TOPIC: How to save trees**

**SUBTOPIC :- a. Afforestation**

**b. Van Mahotsav**

**TOPIC: - Importance of wild life**

**SUBTOPIC :- How to save wild life**

**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. Study of different organs of excretory system and their functions (Model).**
- 2. Study of different parts of an egg (Video).**
- 3. Demonstration of life cycle of frog, hen and butterfly (Video).**
- 4. Demonstration of different types of animals (Specimen of fish, amphibian, reptile, birds).**
- 5. Demonstration of various types of simple machines.**
- 6. To observe the presence of water vapour in air.**
- 7. Study of Solar system (Model).**
- 8. To show the formation of day and night.**

**REVISION MONTH – JANUARY – FEBRUARY , 2018**

**SECOND TERM ASSESSMENT – FEBRUARY 20 , 2018**

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**DECLARATION OF RESULT – MARCH 31 , 2018**