

Dr. M. K. K. Arya Model School, Model Town, Panipat
Syllabus for the session 2017-18
Subject-Science (NCERT)
Class-VI

Book Prescribed: Science

Chapter for Mid-Term Examination

Ch-1: Food: Where does it come from

Ch-2: Components of food

Ch-3: Fibre to fabric

Ch-4: Sorting materials into groups

Ch-5: Separation of substances

Ch-6: Changes around us

Ch-7: Getting to know about plants

Ch-8: Body Movement

Syllabus to be covered in April (2017)

Ch-1: Food: Where does it come from

First week

Topics: Food Variety

Food Materials and sources

Plant parts as food

Second week

Topics: Animal products as food

What do animals eat.

Q/Ans

Assignment

First periodic written test (15th may 2017 to 20th may 2017)

Third Week

Ch-2: Components of food

Topics: What do different food items contain

Carbohydrates- Types of carbohydrates, sources and test of carbohydrates, functions

Proteins- Sources of proteins, test of protein

Fats- Sources of fats, test of fats, functions of fats

Vitamins & Minerals- Sources of Vitamins & Minerals

What do various nutrients do for our body

Water- role of water, sources of water

Fourth week

Topics: Balanced diet

Deficiency diseases

Q/A

Assignment

Syllabus to be covered in May 2017

Ch-3: Fibre to fabric

First week

Topics: Variety in fabrics, fibre : natural fibre, synthetic fibre, some plants fibre : cotton, jute

Spinning cotton yarns

Yarn to fabric (weaving & knitting)

History of clothing materials

Q/A & assignment

Second week: Revision for first periodic written test

Third week

Ch-4: sorting materials into groups

Topics: object around us

Properties of materials (appearances, hardness soluble or insoluble, object may float or sink in water, transparency)

Q/A

Assignment

Syllabus to be covered in July 2017

Ch-5: Separation of substances

First week

Topics :

Methods of separation, handpicking, thrashing, winnowing, sieving, sedimentation, decantation and filtration, evaporation, use of more than one method, can water dissolve any amount of substance.

Second week: Ch-6: Changes around us

Topics : can all changes be reversed

Could there be other ways to bring a change

Third week- Ch-7 : getting to know plants

Topics : Herbs, shrubs and trees

Creepers and climbers

Structure and function of different parts of plant

Stem, leaf.

Fourth week: Ch-7 : getting to know plants

Topics : Root (types and functions)

Flower (structure & functions)

Q/A

Assignment

Syllabus to be covered in August 2017

Ch-8: Body Movement

First week

Topics: Human body and its movement

Ball and socket joints: Pivotal joint, hinge joint, fixed joints.

Skeleton- Skull, ribcage, backbone.

Pelvis bones, pectoral bones

Cartilage

Second week: Ch-8: Body Movement

Topics: Gait of animals

Earthworms

Snail

Cockroach

Birds
Fish
Snakes

Third and fourth week: Q/A and assignment
Revision for mid term examination

September - Mid Term examination

List of practical's for Mid Term Examination

- Exp-1: To test for the presence of starch in given food stuff.
Exp-2: To test the presence of protein in the given food stuff
Exp-3: Test the presence of fats in a given food stuff
Exp-4: To study the fibres obtained from a fabric
Exp-5: To study the stability of different substances in water
Exp-6: To study the process of sedimentation and decantation
Exp 7: To separate chalk powder dissolve in water
Exp-8: To study the parts of a leaf
Exp-9: To study the part of a flower

Activities for the Mid Term Examination

1. Sprouting of seeds
2. Some objects float in water while other sink in it
3. Collect different types of roots and paste on scrap file
4. Separate different parts of flower and paste on scrap file
5. Collect parallel venation and reticulate venation leaves and paste on scrap file
6. Paper weaving

Chapters for final examination

Ch-9 : The living organisms and their surroundings

Ch-10: Motion and measurement of distances

Ch-11: Light, shadow and reflection

Ch-12: electricity and circuits

Ch-13: Fun with magnets

Ch-14: Water

Ch-15: Air around us

Ch-16: Garbage In, Garbage out

Syllabus to be covered in October 2017

First week: Ch-9 : The living organisms and their surroundings

Topics : Organisms and the surroundings where they live

Habitat and adaptation

Terrestrial Habitats: desert, mountain, regions, grasslands.

Aquatic habitats: oceans, ponds, lakes

Second week: Ch-9 : The living organisms and their surroundings

Topics : Characteristics of the living beings

Characteristics of the living beings,

Living things need food, show growth, living things respire, respond to stimuli, living organisms and excretion, living things move, living things reproduce.

Q/A

Assignment

Third week: Ch-10: Motion and measurement of distances

Topics : Story of transport

How far you have travelled ? how wide is the desk.

Some measurements, standard units of measurements.

Correct measurement of length, measuring the length of curved line,

Motion: types of motion- rectilinear motion, circular motion, periodic, non-periodic motion.

fourth week: Ch- 11: Light, shadows and reflection

Topics : Light, sources of light, luminous and non-luminous object. Transparent, Translucent and opaque objects, shadows, A pin hole camera, rectilinear propagation of light, mirrors and reflection.

Syllabus to be covered in November 2017

First week: Ch-12: electricity and circuits

Topics : Electric cell, electric bulb, a bulb connected to an electric cell, an electric circuit, electric switch, electric conductors and insulators.

Second week: Ch-13: Fun with magnets

Topics : How magnets were discovered, magnetic and non-magnetic materials, poles of magnet, finding of directions, make your own magnet, attraction and repulsion between magnets, care of magnets, uses of magnet.

Third week- Ch-14: Water

Topics : How much water do we use

Sources of water and availability of water

Water cycle, how clouds are formed (back to the ocean, flood, drought, water conservation)

Fourth week- Ch-14: Water

Topics : How do we conserve water, rain water harvesting

Syllabus to be covered in Dec 2017

First week: Revision for second periodic test

Second week: Ch-15: Air around us

Topics: Air is present all around us

Composition of air

How does oxygen become available to animals and plants living in water and soil

How is the oxygen in the atmosphere replaced or (balance of oxygen & carbon dioxide is maintained), uses of air

Third week: Ch-16: Garbage In, Garbage out

Topics: Dealing with garbage (landfill)

Segregation of wastes out

Management of bio-degradable wastes- composting, vermicomposting, think & throw, recycling of paper, plastic is boon or a curse.

List of practical's for final examination

Exp 1: To measure the length of a curved line using a thread.

Exp 2: To show the light travel in straight line.

Exp 3: To study the behavior of poles of a permanent magnet.

Exp 4: To show repulsion between like poles and attraction between unlike magnetic poles.

Exp 5: To demonstrate that air contain approximate $\frac{1}{4}$ of oxygen.

Exp 6: To find out whether material is a conductor or an insulator.

List of activities for final examination

1. Construct an electric circuit.
2. Make a model of periscope.
3. Prepare your own pinhole camera.
4. Make different shapes of magnet.
5. Make a magic cup.