

Dr. M.K.K. ARYA MODEL SCHOOL, MODEL TOWN, PANIPAT

WEEK-WISE SYLLABUS

CLASS VII (2018-19)

SUBJECT: SCIENCE

MONTH: APRIL

2nd April — 6th April (Week 1)

Ch-1: Nutrition in plants: Modes of nutrition in plants, Photosynthesis-food making process in plants, Other modes of nutrition in plants.

9th April- 13th April (Week 2)

Other modes of nutrition in plants (Contd.), How nutrients are replenished in the soil? Back exercise and assignment of chapter-1

Ch-3: Fibre to Fabric: Animal fibres-wool and silk, Animals that yield wool

16th April- 21st April (Week 3)

From fibres to wool, processing fibres into wool, Silk, Life history of silk moth,

23rd April- 28th April (Week 4)

From cocoon to silk, processing the silk, reeling the silk, Back exercise and assignment of chapter 3.

MONTH: MAY

30th April- 5th May (Week 1)

Ch-2: Nutrition in animals: Different ways of taking food, Digestion in humans, The mouth and buccal cavity, Milk teeth and permanent teeth, Sweets and tooth decay.

7th May- 11th May (Week 2)

The food pipe, the stomach and the small intestine, absorption in the small intestine, Revision of syllabus of periodic test

14th May- 19th May (Week 3)

Large intestine, Digestion in grass eating animals, Feeding and digestion in amoeba

Ch-5: Acids, Bases and Salts: acids and bases.

21st May- 26th May (Week 4)

Litmus: A natural dye, Turmeric is another natural indicator, China rose as Indicator, Neutralisation, Neutralisation in everyday life: Ant Bite, Soil Treatment, Factory wastes

28th May — 31st May (Week 5)

Back exercise of chapter-5, Assignment of Ch-5

MONTH: JUNE

Summer break (1st June- 1st July)

MONTH: JULY

2nd July — 7th July (Week 1)

Ch-4: Hot and Cold, Measuring temperature, Reading a thermometer, Laboratory thermometer, Transfer of heat: Conduction, Convection. Land breeze

9th July —13th July (Week 2)

Sea breeze, radiation, Kinds of clothes we wear in summer and winter, Back exercise and assignment of chapter 4.

Ch-6: Physical and Chemical Changes: Physical Changes, Chemical change

16th July 21st July (Week 3)

Examples of Chemical Change, Chemical reaction, various chemical reactions, rusting of Iron, Galvanisation, Crystallisation, Back exercise and assignment of chapter-6

23rd July- 28th July (Week 4)

Ch-7: Weather, Climate and adaptations of animals to climate: Weather, Climate, Climate and adaptation: the Polar Regions, the tropical rain forests, Back exercise and assignment of chapter- 7

MONTH: AUGUST

30th July- 4th August (Week 1)

Ch-8: Winds, storms and Cyclones: Introduction, Air exerts pressure, High speed winds are accompanied by reduced air pressure, Air expands on heating, wind currents are generated due to uneven heating on the earth

6th August-10th August (Week 2)

Uneven heating of land and water, thunderstorms and cyclones, How a thunderstorm becomes a cyclone, Destruction caused by cyclones, Effective safety measures

13th August —18th August (Week 3)

Back exercise and assignment of chapter-8

Ch-9: Soil: Soil teeming with life, Soil Profile: humus, weathering, Horizons, Soil Types and Properties of Soil.

20th August- 25th August (week 4)

Moisture in soil, Absorption of water by soil, Soil and Crops, Back Exercise and assignment of chapter-9

27th August- 31st August (Week 5)

Revision of Syllabus for Mid- Term Examination

MONTH: SEPTEMBER

Revision of all chapters of physics, chemistry and biology

Mid- Term Exam

Summary:

Total chapters covered: 09

MONTH: OCTOBER

1st October- 6th October (Week 1)

Ch-10: Respiration in Organisms: Why do we respire? Breathing, how do we breathe? What do we breathe out?

8th October-12th October (Week 2)

Breathing in other animals, Breathing underwater, back exercise and assignment of chapter- 10

Ch-11: Transportation in animals and plants: Circulatory system, Blood and Blood Vessels, Capillaries

15th October- 20th October (Week 3)

Heart and heartbeat, Excretion in Animals: Excretory system in humans, Transport of substances in plants: transport of water and minerals, transpiration, Back exercise and assignment of chapter-11

22nd October- 27th October (Week 4)

Ch-12: Reproduction in Plants: Modes of reproduction, Fragmentation, Spore formation, Sexual Reproduction, Pollination. Fruits and seed formation, Seed dispersal

MONTH: NOVEMBER

29th October- 3rd November (Week 1)

Back exercise of chapter-12

Ch-13: Motion and Time: slow or fast, Speed, Measurement of time, Units of time and speed, Measuring Speed

5th November- 6th November (Week 2)

Distance-time graph

12th November- 17th November (Week 3)

Distance time graph (Contd.), Back exercise of chapter – 13

Ch-14: Electric Current and its effects: Symbols of electric components, heating effect of electric current

19th November- 24th November (Week 4)

Applications of heating effects of electric current, Magnetic effects of electric current, Electromagnet, Electric belt, Back exercise and assignment of chapter-14

26th November- 1st December (Week 5)

Ch-15: Light: Light travels along a straight line, reflection of light, Image, Object, Playing with spherical mirrors

MONTH: DECEMBER

3rd December-7th December (Week 1)

Real image and Virtual image, Images formed by lenses, Sunlight- White or Coloured? Back Exercise of Chapter-15.

Ch-16: Water- A Precious Resource: Introduction, How much water is available

10th December-15th December (Week 2)

Forms of water, ground water as an important source of water

Revision of chapters for periodic test

17th December-22nd December (Week 3)

Depletion of Water Table, Distribution of water, Water management: Rainwater harvesting, drip irrigation, Water harvesting

24th December-29th December (Week 4)

What role you can play? Effect of water scarcity on plants, Back exercise of chapter-16

MONTH: JANUARY

10th January-11th January (Week 2)

Ch-17: Forests: Our Lifeline: Visit to a forest

14th January-19th January (Week 3)

Canopy, Humus, Decomposers, Forests as dynamic living entity, Back Exercise of Chapter-17

21st January-25th January (Week 4)

Ch-18: Wastewater Story: Water-Our Lifeline, What is sewage?, Water freshens up- an eventful Journey, Treatment of polluted water, WWTP, Better Housekeeping Practices

28th January-31st January (Week 5)

Sanitation and disease, Alternative arrangement for sewage disposal, Sanitation at public places, Conclusion, Back Exercise of Chapter-18

LIST OF PRACTICALS (MONTH-WISE)

CLASS- VII

APRIL

1. To show that carbon dioxide is necessary for photosynthesis.
2. To show saprophytic mode of nutrition in growing fungus.

MAY

3. To show the effect of saliva on starch
4. To show the conduction and convection methods of transmission of heat.
5. To record the temperature of water using a laboratory thermometer.
6. To test acidic or basic nature of different solutions by using red and blue litmus papers

JULY

7. Use of turmeric as acid base indicators.
8. Use of phenolphthalein as acid base indicator.
9. To study physical change.

AUGUST

10. To show that air exerts pressure.
11. To study about soil profile.

OCTOBER

12. To show that we breathe out carbon dioxide rich air.
13. To show that potato reproduces by vegetative propagation.
14. To study the motion of a simple pendulum and calculate its time period means the time for 1 oscillation.

NOVEMBER

15. To demonstrate the rectilinear propagation of light.

DECEMBER

16. To demonstrate the white light is composed of 7 colours or making Newton disc.