

Class- IX 2025-26
Science

Book Preferred- N.C.E.R.T and Reference book for Physics, Chemistry and Biology **Modern's ABC**

Periodic Test- I

Subjects	Chapters/Topics
Chemistry	Ch-1 Matter in our Surroundings
Biology	Ch-5 The Fundamental unit of Life -Cell (upto vacuole)
Physics	Ch-7 Motion

Periodic Test- II

Subjects	Chapters/Topics
Chemistry	Ch-2 Is Matter around us Pure
Biology	Ch-5 The Fundamental unit of Life -Cell (Cell division only) Ch 6 Tissue (Plant Tissue only)
Physics	Ch-8 Force and Laws of Motion

Half-Yearly Examination

Subjects	Chapters
Chemistry	Ch-1 Matter in our Surrounding Ch-2 Is Matter Around Us Pure Ch-3 Atoms and Molecules
Biology	Ch-5 The Fundamental Unit of Life Ch-6 Tissues
Physics	Ch-7 Motion Ch-8 Force and Laws of Motion Ch-9 Gravitation

Practicals:-

Chemistry

1. Preparation of:

- a) a true solution of common salt, sugar and alum
- b) a suspension of soil, chalk powder and fine sand in water

c) a colloidal solution of starch in water and egg albumin/milk in water and distinguish between these on the basis of

- ☐ transparency
- ☐ filtration criterion
- ☐ stability

2. Preparation of Unit-I

- a) A mixture
- b) A compound

using iron filings and sulphur powder and distinguishing between these on the basis of:

- (i) appearance, i.e., homogeneity and heterogeneity
- (ii) behaviour towards a magnet
- (iii) behaviour towards carbon disulphide as a solvent
- (iv) effect of heat

3. Perform the following reactions and classify them as physical or chemical changes: Unit-I

- a) Iron with copper sulphate solution in water
- b) Burning of magnesium ribbon in air
- c) Zinc with dilute sulphuric acid
- d) Heating of copper sulphate crystals
- e) Sodium sulphate with barium chloride in the form of their solutions in water

Biology

- 1. Preparation of stained temporary mounts of (a) onion peel, (b) human cheek cells & to record observations and draw their labeled diagrams.

Physics

- 1. Determination of the density of solid (denser than water) by using a spring balance and a measuring cylinder.
- 2. Establishing the relation between the loss in weight of a solid when fully immersed in
 - a) Tap water
 - b) Strongly salty water with the weight of water displaced by it by taking at least two different solids.

Periodic Test – III

Subjects	Chapters/Topics
Chemistry	Ch-4 Structure of Atom
Biology	Ch-15 Improvement in Food resources
Physics	Ch-11 Work and Energy

Annual Examination

Subjects	Topics	Activities
Chemistry	Ch-1 Matter in our Surroundings	1. Will you explain that particles of matter have space among them? 2. How will you show that camphor undergoes sublimation?
	Ch-2 Is Matter Around us Pure?	1. Show the Tyndall effect by colloidal solution. Project: Design a small scale filtration plant, used to clean muddy water.
	Ch-3 Atoms and Molecules	1. Make a modal to show the formation of covalent compound and ionic compound.
	Ch-4 Structure of Atom	1. To make a static modal to display the electronic configuration of first five elements.
Biology	Ch-5 The Fundamental Unit of Life	1. To show the different parts of microscope. 2. To prepare the model of mitosis and meiosis.
	Ch-6 Tissue	1. To show the growth of onion roots from onion bulb. Modal: 1. To prepare a model of voluntary muscles. 2. To prepare a model of neuron
	Ch-12 Natural resources	1. Prepare a modal to show the sprinkler irrigation system and drip irrigation system.
	Ch-13 Improvement in Food resources	
Physics	Ch-7 Motion	1. How will you show that rest and motion are relative terms.

	Ch-8 Force and Laws of Motion	<ol style="list-style-type: none"> 1. How will you show that only one carrom coin is removed from pile when hitting with a striker. 2. Show the movement of two wheel carts on which two students are standing, and throwing some weight towards each other.
	Ch-9 Gravitation	<ol style="list-style-type: none"> 1. Show with an activity that a plastic mug can float but the needle sink in water
	Ch- 10 Work and Energy	<ol style="list-style-type: none"> 1. Show the type of energy in arrow and stretched string and a bow, in stretched slinky.
	Ch-11 Sound	<ol style="list-style-type: none"> 1. How will you show that sound is a type of energy. 2. How will you show that sound is a mechanical wave?

Practicals:-

Chemistry

1. Determination of the melting point of ice and the boiling point of water.
2. Verification of the law of conservation of mass in a chemical reaction.

Physics

1. Verification of the Laws of reflection of sound.
2. Determination of the speed of a pulse propagated through a stretched string/slinky (helical spring).

Biology

1. Identification of Parenchyma, collenchyma and Sclerenchyma tissues in plants, striped, smooth and cardiac muscle fibers and nerve cells in animals, from prepared slides. Draw their labeled diagrams.

Note:-

1. Both annual and half-yearly activities along with whole syllabus will come in annual examination.
2. Prepare question/answer from Reference book also
3. In modal test whole syllabus will come
4. **Reading material:**
 - I. Why do we fall ill
 - II. Conservation of momentum