



BAL BHARATI PUBLIC SCHOOL

COMMON ANNUAL EXAMINATION (2024-2025) SYLLABUS

CLASS: IX

SUBJECT: SCIENCE

TEXTBOOKS:

1. Science Textbook for Class IX

2. NCERT EXEMPLAR

S.NO.	UNIT/CHAPTER /TOPIC	SUBTOPICS	WEIGHTAGE
1.	CH-1 MATTER IN OUR SURROUNDINGS	1.1 Physical Nature of Matter 1.2 Characteristics of Particles of Matter 1.3 States of Matter 1.4 Can Matter Change its State? 1.5 Evaporation	05
2.	CH-2 Is matter around us pure?	2.1 What is a Mixture?, Types 2.2 What is a Solution?, Types 2.3 Physical and Chemical Changes (excluding separating the components of a mixture). 2.4 What are the Types of Pure Substances?	04
3.	CH-3 ATOMS AND STRUCTURE	3.1 Laws of Chemical Combination 3.2 Atom, Symbols, Atomic mass 3.3 Molecule (Elements & Compounds), Ions 3.4 Formula writing 3.5 Molecular mass, Formula Unit mass	08
4.	CH-4 STRUCTURE OF THE ATOM	4.1 Charged Particles in Matter- Electrons, protons and neutrons 4.2 Structure of an Atom 4.3 Electrons Distribution in Orbits 4.4 Valency 4.5 Atomic number and Mass number 4.6 Isotopes, Isobars	08
5.	CH-5 THE FUNDAMENTAL UNIT OF LIFE	5.1 What are Living Organisms Made Up of?	09

		<p>5.2 What is a Cell Made Up of? What is the Structural Organization of a Cell?</p> <p>5.2.1 Plasma Membrane or Cell Membrane</p> <p>5.2.2 Cell Wall</p> <p>5.2.3 Nucleus</p> <p>5.2.4 Cytoplasm</p> <p>5.2.5 Cell Organelles</p> <p>5.2.5 (I) Endoplasmic Reticulum (Er)</p> <p>5.2.5 (Ii) Golgi Apparatu</p> <p>5.2.5 (Iii) Lysosomes</p> <p>5.2.5 (Iv) Mitochondria</p> <p>5.2.5 (V) Plastids</p> <p>5.2.5 (Vi) Vacuoles</p> <p>Cell Division</p>	
6.	CH-6 TISSUES	<p>6.1 Are Plants and Animals Made of Same Types of Tissues?</p> <p>6.2 Plant Tissues</p> <p>6.2.1 Meristematic Tissue</p> <p>6.2.2 Permanent Tissue</p> <p>6.2.2 (I) Simple Permanent Tissue</p> <p>6.2.2 (Ii) Complex Permanent Tissue</p> <p>6.3 Animal Tissues</p> <p>6.3.1 Epithelial Tissue</p> <p>6.3.2 Connective Tissue</p> <p>6.3.3 Muscular Tissue</p> <p>6.3.4 Nervous Tissue</p>	09
7.	CH-12 IMPROVEMENT IN FOOD RESOURCES	<p>12.1 Improvement in Crop Yields</p> <p>12.1.1 Crop Variety Improvement</p> <p>12.1.2 Crop Production Management</p> <p>12.1.2 (I) Nutrient Management</p> <p>12.1.2 (Ii) Irrigation</p> <p>12.1.2 (Iii) Cropping Patterns</p> <p>12.1.3 Crop Protection Management</p> <p>12.2 Animal Husbandry</p> <p>12.2.1 Cattle Farming</p> <p>12.2.2 Poultry Farming</p> <p>12.2.3 Fish Production</p> <p>12.2.4 Bee-Keeping</p>	10
8.	CH-07 MOTION	<p>7.1 Describing motion</p> <p>7.2 Measuring rate of motion</p> <p>7.3 Rate of change of velocity</p> <p>7.4 Graphical representation of motion</p> <p>7.5 Equations of motion</p> <p>7.6 Uniform circular motion</p>	3

9.	CH-8 FORCE AND LAWS OF MOTION	8.1 Balanced and Unbalanced forces 8.2 First law of motion 8.3 Inertia and Mass 8.4 Second law of motion 8.5 Third law of motion	5
10.	CH-9 GRAVITATION	9.1 Gravitation 9.2 Free fall 9.3 Mass 9.4 Weight 9.5 Thrust and Pressure 9.6 Archimedes' Principle	5
11.	CH-10 WORK AND ENERGY	10.1 Work 10.2 Energy 10.3 Rate of doing work (excluding commercial unit of energy)	7
12.	CH-11 SOUND	11.1 Production of sound 11.2 Propagation of sound 11.3 Reflection of sound 11.4 Range of hearing 11.5 Applications of ultrasound	7
			TOTAL MARKS= 80

FOR CLASS 9:

THEORY (Pen and Paper Test):80 marks

INTERNAL ASSESSMENT:20 marks