

Detailed Lesson Plan for CBSE Science

Class - 9 Science

S.N.	Unit Name	Sub-Topics	No. of Classes
1	Matter in our surroundings	1.0 Introduction of Matter 1.1 Physical Nature of Matter 1.2 Characteristics of Particles of Matter 1.3 States of Matter 1.4 Can Matter change its states? 1.5 Evaporation	6
2	Is matter around us pure?	2.0 What is mixture? 2.1 What is solution? 2.2 Separating the components of a mixture-I 2.3 Separating the components of a mixture-II 2.4 Physical and Chemical Changes 2.5 Types of pure Substances	5
3	Atoms and Molecules	3.0 Laws of Chemical Combination 3.1 What is an Atom? 3.2 What is a Molecule? 3.3 Writing Chemical Formulae 3.4 Molecular Mass and Mole concept	5
4	Surface of the Atom	4.0 Introduction of Atoms 4.1 Charged Particle in Matter 4.2 Thomson's Model of an Atom 4.3 Rutherford's model of an Atom 4.4 Bohr's Model of atom 4.5 How are electrons distributed	6

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		<p>in different orbits?</p> <p>4.6 Valency</p> <p>4.7 Atomic Number and Mass Number</p> <p>4.8 Isotopes</p>	
5	The Fundamental unit of life	<p>5.0 What are living organisms made up of?</p> <p>5.1 Plasma membrane or cell membrane</p> <p>5.2 Cell wall & Nucleus</p> <p>5.3 Cytoplasm</p> <p>5.4 Cell Organelles</p>	5
6	Tissues	<p>6.0 Introduction of Tissues</p> <p>6.1 Are plants and animals made of same types of tissues?</p> <p>6.2 Plant Tissues</p> <p>6.3 Animal Tissues: Epithelial Tissue</p> <p>6.4 Animal Tissues: Connective Tissue</p> <p>6.5 Animal Tissues: Muscular Tissue</p> <p>6.6 Animal Tissues: Nervous Tissues</p>	5
7	Diversity in living organisms	<p>7.0 Introduction of living organisms</p> <p>7.1 What is the basis of classification?</p> <p>7.2 Classification and Evolution</p> <p>7.3 The Hierarchy of Classification groups</p> <p>7.4 Plantae</p> <p>7.5 Animalia-I (Porifera, coelenterata, platyhelminthes, nematoda)</p> <p>7.6 Animalia-II (Annelida, Arthropoda, Mollusca, Echinodermata, Protochordata)</p>	6

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		7.7 Animalia-III (Vertebrata) 7.8 Nomenclature	
8	Motion	8.0 Describing Motion 8.1 Rate of Motion & Rate of change of velocity 8.2 Graphical representation of Motion 8.3 Equations of motion by graphical method 8.4 Uniform Circular Motion	5
9	Force and Laws of Motion	9.0 Force and its type 9.1 Laws of Motion: First Law 9.2 Laws of Motion: Second Law 9.3 Laws of Motion: Third Law 9.4 Conservation of momentum	5
10	Gravitation	10.0 Gravitation and its law 10.1 Free Fall 10.2 Mass and Weight 10.3 Thrust and Pressure 10.4 Archimedes' Principle	5
11	Work and Energy	11.0 Work and scientific conception of work 11.1 Work done by a constant Force 11.2 Energy and its Form 11.3 Kinetic Energy 11.4 Potential Energy 11.5 Rate of doing work	5
12	Sound	12.0 Sound and Production of sound 12.1 Propagation of sound 12.2 Characteristics of a sound wave 12.3 Reflection of sound 12.4 Range of hearing 12.5 Applications of Ultrasound 12.6 Structure of Human Ear	5

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13	Why do we fall ill?	13.0 Health and its Failure? 13.1 Disease and its causes 13.2 Infection Diseases: Infection Agent 13.3 Infection Diseases: Means of Spread 13.4 Infection Diseases: Organ-specific and tissue specific manifestations 13.5 Infection Diseases: Principles of Treatment & Prevention	4
14	Natural Resources	14.0 Introduction of Natural Resources 14.1 The breath of Life: Air 14.2 Water: A Wonder Liquid 14.3 Biogeochemical Cycles: The water-Cycle 14.4 Biogeochemical Cycles: The Nitrogen-Cycle 14.5 Biogeochemical Cycles: The Carbon-Cycle 14.6 Biogeochemical Cycles: The Oxygen-Cycle 14.7 Ozone Layer	5
15	Improvement in Food resources	15.0 Introduction of Food resources 15.1 Improvement in crop yields 15.2 Crop production Management 15.3 Irrigation & Cropping Patterns 15.4 Crop protection Management 15.5 Animal Husbandry 15.6 Fish Production	4
Total Classes			76

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Revision Classes	15 Classes
Exam Strategy Session	1 Session
PTM	2
All Total Classes	92 Classes