

ARMY GOODWILL PUBLIC SCHOOL RAJOURI
SPLIT UP SYLLABUS OF SCIENCE SESSION 2021-22
NCERT BOOK SCIENCE TEXT BOOK FOR CLASS IX

. S NO	MONTH AND ASSESSMENT	UNIT	DETAILS	NO OF PERIODS ALLOTTED	PRACTICALS
1	APRIL	UNIT-I	<p>CHAPTER 1. Matter in our Surroundings Concept of Matter, Characteristics and properties of matter, States of Matter (Solid, liquid and Gas) their characteristics, Effect of change of temperature and pressure on states of matter, latent heat and its types, Sublimation, Evaporation, Factors affecting rate of evaporation.</p> <p>Chapter 8 : Motion</p> <p>Concept of Rest and motion, types of motion, Motion along a straight line, Uniform and Non-Uniform motion, Concept of Speed and Velocity, Rate of change of velocity, Distance and Velocity time graphs, Equations of Motion by graphical methods, Uniform Circular Motion</p>	<p>11</p> <p>9</p>	<p>1.To determine the melting point of ice and the boiling point of water</p> <p>2. To separate the components of a mixture of sand, common salt and ammonium chloride by sublimation</p>
2	MAY PERIODIC ASSESSMENT-1 SYLLABUS-CH-1, 8, 5	UNIT-I	<p>Chapter 5 : The Fundamental Unit of Cell</p> <p>Concept of Cell, Types and Shapes of cell, Discovery of cell, Plasma membrane, Cell wall, Nucleus, Cytoplasm, Cell Organelles (Endoplasmic Reticulum, Golgi Apparatus, Lysosomes, Mitochondria, Plastids, Vacuoles)</p> <p>• REVISION</p>	7	<p>1 To prepare stained temporary mount of human cheek cells and to record observations and draw their labelled diagram</p> <p>2. To prepare stained temporary mount of onion Peel and to record observations and draw their labelled diagram</p>

			<p>Archimedes principle, Relative density.</p> <p>Chapter 6: Tissues</p> <p>Concept of tissue, Plant tissue (Meristematic tissue, Permanent tissue), Animal tissue(Epithelial tissue, Connective tissue, Muscular tissue, Nervous tissue)</p>	10	<p>solids.</p> <p>2 To determine the density of a solid by using a spring balance and a measuring cylinder</p>
6	<p>SEPTEMBER</p> <p>HALF YEARLY EXAMS SYLLABUS CH- 2, 3, 9, 10, 6, 13</p>	TERM-I	<p>Chapter 13: Why do we fall ill</p> <p>Health, Disease, Health and its failure, Disease and its causes, Infectious diseases, Means of spread of diseases, Principles of treatment and prevention.</p> <p>REVISION</p>	9	<p>1 To study the life cycle of mosquito</p>
7	OCTOBER	UNIT-II	<p>CHAPTER 4 : Atoms and Molecules</p> <p>Discovery of Electron, Proton, and Neutron, Thomson's model of atom, Rutherford's model of an atom, Bohr's model of atom, Valency, Distribution of electrons in shell, Atomic number and Mass number, Isotopes and Isobars</p> <p>Chapter 11: Work and Energy</p> <p>Work, Workdone, Energy, forms of energy, Kinetic energy, Potential energy, law of conservation of energy Rate of doing work, commercial unit of energy</p> <p>Chapter 12: Sound</p> <p>Production of sound, propagation of sound,</p>	<p>11</p> <p>9</p> <p>10</p>	

			<p>Characteristics of Sound wave, Speed of sound, Reflection of sound, Reverberation, Range of hearing, Applications of Ultrasound, Sonar, Structure of Human Ear</p>		<p>1 To verify the laws of reflection of sound</p>
8	NOVEMBER	UNIT-II	<p>Chapter 7 : Diversity in living world</p> <p>Basis of Classification, Monera, Protista, Fungi, Plantae (Thallophyta, Bryophyta, Pteridophyta, Gymnosperms, Angiosperms) Animalia (Porifera, Colentrata, Platyhelminthes, Nematoda, Annelida, Arthropods, Mollusca, Echinodermata, Protochordata, Verterbrata), Nomenclature</p> <p>Chapter 14 : Natural Resources</p> <p>Air, Role of atmosphere, Movement of wind, Rain, Air pollution, Water pollution, Biogeochemical cycles(water, nitrogen , carbon and oxygen cycle) Greenhouse effect, Ozone layer depletion.</p>	<p>15</p> <p>10</p>	<p>1 To study the characteristics of spirogyra/ Agaricus, Moss Fern, Pinus and an Angiospermic plant and to draw and give two identifying features of the groups they belong to</p> <p>2 To study the external features of root, stem leaf and flower of monocot and dicot plants.</p>
9	DECEMBER		<p>REVISION</p>		
	<p>PERIODIC ASSESSMENT 2</p> <p>SYLLABUS CH- 4, 11, 12, 7, 14</p>				
10	JANUARY	TERM-II	<p>Chapter 15: Improvement in Food Resources</p> <p>Improvement in crop</p>	<p>12</p>	

			yield, Manure, Fertilizers, Crop protection management, Animal Husbandry		
11	FEBRUARY	REVISION	REVISION		
12	MARCH		FINAL EXAMS		