

**AIR FORCE SCHOOL BAMRAULI ANNUAL
SPLIT-UP OF SYLLABUS
Academic session: 2025-2026**

CLASS : IX

SUBJECT : SCIENCE

BOOK : SCIENCE FOR CLASS IX (NCERT)

MONTH NAME	CHAPTER / UNIT	TOPIC/ SUBTOPIC	PERIODS	ACTIVITY
APRIL	Ch:1 Matter in our surroundings	Definition of matter- solid, liquid and gas. Characteristics-shape, volume, density. Change of state- melting, freezing, evaporation, Condensation, sublimation, Evaporation (cooling by evaporation).	16	To determine the Melting point of ice and the boiling point of water To prepare a) mixture b) compound using iron filings and Sulphur powder and distinguish these on the basis of i) appearance i.e. homogeneity/heterogeneity ii) Behavior towards a magnet iii) behavior towards carbon dioxide sulphide Effect of heat.
APRIL- MAY	Ch:8 Motion	Idea of motion, types with examples, Distance and displacement, velocity; uniform and non-uniform motion along a straight line Acceleration, distance-time and velocity-time graphs for uniform motion and uniformly accelerated motion, elementary idea of uniform circular motion	16	
JUNE JUNE	Ch 5: The fundamental units of life	Organization in Living World Cell - Basic Unit of life: Cell as a basic unit of life; prokaryotic and eukaryotic cells, Multicellular organisms; cell membrane and cell wall, Nucleus, chromosome- basic structure, number. cell organelles and inclusions. endoplasmic reticulum, Golgi apparatus, chloroplast, mitochondria, vacuoles	16	To prepare stained temporary mounts of (a) onion peel and (b) Human cheek cells and to record observations and draw their labeled diagrams.
JULY	Ch-2: Is Matter Around Us Pure	Elements, compounds and mixtures. homogeneous/ heterogeneous Mixtures True, Colloids and suspension	16	Practical. :To carry out the following reactions and classify them as physical and chemical changes a)reaction between iron and copper sulphate solution. b)burning of magnesium ribbon in air. c)zincwithdil.H ₂ SO ₄ d) Heating of CuSO ₄ . Na ₂ SO ₄ (aq) and BaCl ₂ (aq) Preparation of true, suspension

				and colloidal solution and distinguishing them on the basis of 1. Transparency 2. filtration 3. Stability II. Performing following reactions 1. Iron with copper sulphate solution in water 2. Burning of magnesium ribbon in air 3. Zinc with dilute sulphuric acid
JULY- AUGUS T	Ch-9: Force and law of motion	Force and motion Newton's laws of motion Action and reaction forces, inertia of a body inertia and mass ,momentum, force and acceleration Momentum, force and acceleration. Thrust And pressure. Archimedes's principle, buoyancy,	16	Activities based on Newton's First second and Third law of motion
AUGUS T	Chapter-6 Tissue	Tissues, Organs, Organ System, Organism Structure and functions of Animals and plant tissues (Only four types of tissues in animals), Food Production: Plant and Animal breeding types of tissues in animal's meristematic and permanent tissues in plants).	16	To identify parenchyma and Collenchyma, sclerenchyma tissues in plants striated, smooth and cardiac muscle fibers and nerve cells in animals from prepared slides and to draw their labeled diagrams
SEPTE MBER	Ch-10: Gravitation	Universal law of gravitation and its importance, Acceleration due to gravity, free fall , concept of mass and weight, Thrust and pressure, Archimedes principle	16	To Show that all objects, big or small, heavy or light, all fall at the same rate (using (Eraser, Chalk, Pebble...))
OCTUB ER	Ch-3: Atoms and molecule	Atoms and Molecules, Chemical Formula of common compounds, Law of Chemical combination, Atomic and molecular masses, Valence, Chemical formulae of common compounds	15	Verification of the law of conservation of mass in a chemical reaction.
OCTUB ER	Ch-11: Work and energy	work done by force, energy power, kinetic energy, potential energy, law of conservation of energy (excluding commercial unit of energy)	16	Alpha particle scattering activity
NOVEM BER	Chapter-12 Improvement in Food Resources:	Improvement in Food Resources: Selection for Quality Improvement and Management Introduction to Improvement in Food Resources Crop Variety Improvement: Introduction to Crop Variety	16	Field Visit Crop Cultivation Experiment Discussion on Genetic Improvement Case Studies Debates Poster Making

		<p>Improvement Improvement in Crop Yield Crop production management Nutrient management, Use of Fertilizers and manures Irrigation, Cropping pattern, Crop Management Practices Protection from pests, and Diseases, Organic farming. Animal Husbandry Cattle Farming Poultry Farming Fish Production Bee-Keeping Dairy Farm Management Animal Breeding Bee-Keeping Fisheries</p>		
DECEMBER	Ch-4: Structure of atom	Electrons, protons and neutrons, (continued) valency Atomic number, mass number, Valency, Isotopes and isobars	19	
DECEMBER- JANUARY	Ch-12: sound	Nature of sound and its propagation in various media speed of sound. Range of hearing in humans; ultrasound, Reflection of sound ,echo	16	Determination of speed of pulse propagated through a stretched string