

AIR FORCE SCHOOL, BAMRAULI
ANNUAL SPLIT-UP OF SYLLABUS
ACADEMIC SESSION (2026-27)

CLASS-IX

SUB-SCIENCE
BOOK- NCERT EXPLORATION

MONTH NAME	CHAPTER NO. & NAME	TOPIC/SUB-TOPICS	NO. OF PERIODS	ACTIVITY
April	CH 5 : EXPLORING MIXTURES & THEIR SEPARATION	Solutions, suspensions, colloids and their properties Separation techniques based on the physical properties of components	12	Preparation of true, suspension and colloidal solution and distinguishing them on the basis of 1. Transparency 2. filtration 3. Stability
	CH 2 : CELL- THE BUILDING BLOCK OF LIFE	Prokaryotic and eukaryotic cells structure and function of key organelles Cellular division Recent advancement in cell biology	12	Microscope observation of onion peel & cheek cells
May	CH 4 : DESCRIBING MOTION AROUND US	Distance and displacement, velocity; uniform and non-uniform motion along a straight line Acceleration, Position-time and velocity-time graphs, uniform circular motion	9	Activity: toy car motion on track; measure speed
June			11	
July	CH 8 : JOURNEY INSIDE THE ATOM	Atomic Models Distributions of electrons in elements Symbols Valency, Atomic number, Mass number	13	Chart-making: timeline of atomic models (Dalton → Bohr)
	CH 3 : TISSUE IN ACTION	Tissues, Organs, Organ System, Organism Structure and functions of Animals and plant tissues Care of musculoskeletal system	13	To identify parenchyma and Collenchyma, sclerenchyma tissues in plants striated, smooth and cardiac muscle fibers and nerve cells in animals from prepared slides
Aug	CH 6: HOW FORCES AFFECT MOTION	Balanced and unbalanced forces Friction Newton's laws of motion	10 13	Balloon rocket experiment to show action-reaction

Sept	CH 9 : ATOMIC FOUNDATIONS OF MATTER	Law of conservation of mass & proportion constant Dalton's Atomic theory Covalent & Ionic compounds and their properties Writing formulae Molecular mass	16	Verification of the law of conservation of mass in a chemical reaction. Role-play: students act as atoms forming molecules
Oct	CH 12 : PATTERNS IN LIFE-DIVERSITY & CLASSIFICATION	Importance of classification, Five kingdoms and their key features with examples, Major division of animals and plants, Binomial nomenclature, Acellular entities: viruses	16	Ask groups to sort organisms into categories (plants, animals, fungi, microorganisms). Then refine into subcategories (vertebrates/invertebrates, flowering/non-
Nov	CH 7 : WORK, ENERGY & SIMPLE MACHINES	Work-Energy theorem, kinetic and potential energy, and conversion between potential energy and kinetic energy, Simple machines and their mechanical advantage (pulley, inclined plane, lever)	16	Use a ruler as a lever with a fulcrum to lift a load and observe how effort changes with fulcrum position, Pendulum experiment to show energy transformation
Dec	CH 13 : EARTH AS A SYSTEM-ENERGY, MATTER & LIFE	Nature of solar energy: solar radiation, electromagnetic spectrum, Differential warming of the Earth causes winds, Biogeochemical cycles, Human impact on Earth's system	14	Model the Earth system by using bowls of water, soil, plants, and a lamp to show energy flow, matter cycles, and life interactions
Jan	CH 10 : SOUND WAVES : CHARACTERISTICS & APPLICATIONS	Production & Propagation of sound, Characteristics of sound, Propagation of sound in different media. Reflection of sound wave	13	Determination of speed of pulse propagated through a stretched string, Tuning fork in water
Feb	CH 11 : REPRODUCTION : HOW LIFE CONTINUES	Reproduction—sexual and asexual, Types of asexual reproduction, Sexual reproduction in flowering plants & in humans, Reproductive health & hygiene, Introduction to birth control methods	13	Use flower buds or sprouted seeds to observe stages of reproduction and explain how life continues through new generation.

