

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

CLASS-VIII
SUBJECT – SCIENCE
BOOK – CURIOSITY

MONTH NAME	CHAPTER NO.	CHAPTER NAME	TOPIC / SUBTOPIC	ACTIVITY	PERIODS
APRIL	Ch 1	Exploring the Investigative World of Science	Science as investigation; asking focused questions; observation and experimentation; variables and fair testing; recording observations; everyday investigations like puffing of puri; overview of the Class 8 science journey.	Activities based on asking investigable questions; observation notes; simple experiment design; discussion on variables and controls.	03
	Ch 2	The Invisible Living World Beyond Our Naked Eye	Discovery of the microscopic world; lens and microscope; cell as basic unit of life; onion peel and cheek cells; cell membrane, cytoplasm, nucleus, cell wall; plant and animal cells; unicellular and multicellular organisms; levels of organisation; microorganisms and their diversity.	Observation of magnified objects; Activities 2.1–2.6; preparing onion peel and cheek cell slides; observing pond water and soil suspension.	14
	Ch 4	Electricity: Magnetic and Heating Effects	Magnetic effect of electric current; magnetic field around a current-carrying wire; electromagnets and their uses; strength and polarity of electromagnets; heating effect of electric current; nichrome wire and heating devices; Voltaic cell, dry cell, rechargeable batteries and their uses.	Activities 4.1–4.6; making an electromagnet; observing compass deflection; nichrome wire heating activity; lemon cell demonstration.	10
MAY-JUNE	Ch 8	Nature of Matter: Elements, Compounds, and Mixtures	Matter and its classification; mixtures and types of mixtures; uniform and non-uniform mixtures; pure substances; elements and compounds; atoms and molecules; examples such as water, salt, sugar, iron-sulfur; uses of elements, compounds, alloys and minerals.	Activities 8.1–8.5; lime water test; observing dust in air; electrolysis of water demonstration; iron and sulfur activity.	9
	Ch 3	Health, Disease, and the Body's Defences	Health and disease; communicable and non-communicable diseases; pathogens and modes of spread; immunity; vaccines; balanced diet, rest, exercise, hygiene and sanitation; prevention and control of infections; common disease-causing microbes and body defence mechanisms.	Concept map on disease prevention; hygiene survey; discussion on vaccination; food and health chart; classroom quiz.	11
JULY	Ch 5	Exploring Forces	Force as push and pull; contact and non-contact forces; balanced and unbalanced forces; effects of force on motion and shape; friction and its effects; muscular, gravitational, magnetic and electrostatic forces in daily life; applications of force.	Identifying forces in daily life; simple push-pull demonstrations; friction activities; concept maps and quizzes.	16

AUGUST	Ch 6	Pressure and Pressure in Fluids	Pressure as force per unit area; effect of area on pressure; pressure in liquids and gases; atmospheric pressure; transmission of pressure in fluids; applications in syringes, droppers, straws and hydraulic systems; relation of pressure to daily life.	Demonstration of pressure with pin and board; bottle-hole activity; syringe/dropper observation; worksheet and concept map.	11
	Ch 9	The Amazing World of Solutes, Solvents, and Solutions	Solution, solute and solvent; saturated and unsaturated solutions; solubility and effect of temperature; gases dissolved in water; floating and sinking; mass, volume and density; measurement of density of regular and irregular objects; relation of density to daily life.	Activities 9.1–9.7; preparing solutions; measuring volume using measuring cylinder; displacement method; density calculations.	12
SEPTEMBER	Ch 7	Winds, Storms, and Cyclones	Movement of air due to pressure differences; sea breeze and land breeze; formation of winds; storms and cyclones; cyclone safety measures; weather-related hazards; role of science in predicting and reducing damage.	Activities on moving air and pressure; model of land and sea breeze; cyclone safety poster; quizzes and discussions.	14
OCTOBER	Ch 10	Light: Reflections and Lenses	Reflection of light; regular and diffused reflection; image formation by plane and curved mirrors; multiple reflections; lenses and refraction; converging and diverging lenses; use of lenses in magnifying glass, spectacles and simple optical devices.	Mirror observation activities; ray tracing with torch and mirror; lens activities; making a pinhole/light path model; quizzes.	14
NOVEMBER	Ch 11	The Earth, the Moon, and the Sky	The Moon and its phases; relative positions of Sun, Earth and Moon; eclipses as age-appropriate introduction; calendars and lunar cycles; observation of the night sky; constellations and celestial patterns; use of sky observations in daily life.	Moon observation chart; identifying phases of the Moon; constellation drawing; sky-watch record; quizzes and puzzles.	12
DECEMBER	Ch 12	Ecosystems and Interdependence	Biotic and abiotic components of ecosystems; producers, consumers and decomposers; food chains and food webs; interactions among organisms; balance in nature; human impact on ecosystems; conservation of biodiversity and habitats.	Preparing food chains and food webs; ecosystem chart; field observation; poster on conservation; concept map.	18
JANUARY	Ch 13	Earth – Our Unique Habitat	Conditions that make Earth suitable for life; atmosphere, water and suitable temperature; interdependence of life-support systems; climate and human influence; global warming and environmental challenges; need for scientific awareness and responsible action to protect Earth.	Project on protecting Earth; climate awareness poster; group discussion; recap activities and annual revision.	16