

AIR FORCE SCHOOL BAMRAULI
ANNUAL SPLIT UP OF SYLLABUS
ACADEMIC SESSION -2022-23

CLASS & SEC :-		SUBJECT :-	Science
IX A,B,C		BOOK NAME :-	NCERT
MONTH NAME	CHAPTER NO. & CHAPTER NAME	TOPIC/SUB TOPIC	ACTIVITY
APR	Ch-1 Matter in our surrounding Ch-5 The fundamental units of life	Ch-1 Physical nature of matter, characteristics of particles of matter, States of matter, change of states of matter, evaporation, factors affecting evaporation , Ch-5 Introduction to cell, structural organisation of a cell, plasma membrane , cell wall , nucleus, cytoplasm , ER,Golgi apparatus ,lysosomes,mitochondria ,plastid, vacuole	Estimating how small are the particles of matter. With every dilution, though the colour becomes light, it is still visible. 2) ask students to peel an onion and observe it under a simple microscope.
MAY	Ch-8 Motion	Introduction to motion,motion along straight line,uniform motion and non uniform motions ,measuring the rate of motion,speed with direction ,rate of change of velocity,graphical representation of motion,equations Of motion by graphical method, uniform circular motion	Plot and interpret the distance-time graph for the train assuming that its motion between any two stations is uniform.
JUN	Ch-2 Is matter around us pure	Ch-2 Introduction to mixture,types of mixture,introduction to solution and it's properties , introduction to suspension and it's properties ,concentration of solution , introduction to suspension and it's properties,introduction to colloidal solution and it's properties ,separating the components of a mixture,saparation of different gases from air, physical and chemical changes	On heating the solution, water evaporates, and we get back the ink dye in the watch glass.
JUL	Ch-6 Tissue, Ch-9 Force and laws of motion	Ch-6 introduction to tissues,Plant tissues, permanent and meristematic tissue, animal tissue- epithelial ,connective , muscular tissue and nervous tissue CH-9 Balanced and unbalanced force, First law of motion, Inertia and mass , second law of motion, mathematical formulation of second law of motion, law of motion, third law of motion , conservation of momentum	asks students to observe the cross-section of the stem of a plant under the microscope. 2) asks students to strike a pile of carrom coins and see if the rest of the coins also move with a bottom coin or not.

AUG	Ch- 15 Improvement in food resources, Ch- 10 Gravitation	Ch-15 Improvement in crop yield, crop variety improvement, crop production management , animal husbandry CH- 10 Gravitation, Universal law of gravitation and its importance, free fall , concept of mass and weight, Thirst and pressure Archimedes principle , relative density	Collect grains/seeds of cereals, pulses and oil seeds and gather information about the seasons in which they are sown and harvested. 2) (a) Observe the elongation of the rubber string due to the weight of a piece of stone suspended from it in air. (b) The elongation decreases as the stone is immersed • in water.
SEP	Ch-14 Natural resources	The breath of life; air , Rain , Air pollution, water a wonder liquid minerals rich in soil	Effect of flowing water on the top-soil
OCT	Ch- 3 Atoms and molecules Ch-7	Ch-3 Law of chemical combination , introduction to atom Symbols of atoms of	To prove law of conservation of mass
NOV	Ch-11 Work and energy ,Ch-13 Why do we fall ill	Ch -11 Work , scientific concept of work , energy , forms of energy , law of conservation of energy , rate of doing work , commercial unit of energy CH- 13 health and its failure, distinction between healthy and disease free, disease and its causes, acute and chronic disease, causes of disease, means of spread, organ specific and tissue specific manifestation, principles of treatment,principle of prevention	Discuss in small groups how certain sources of energy are due to the Sun. • Are there sources of energy which are not due to the Sun? 2) Find out how your local authority manages the solid waste generated in your neighbourhood. •
DEC	Ch-4 Structure of atom , Ch-12 Sound	Ch-4 structure of atom, Thomson model of an atom , Rutherford's model of an atom, drawbacks of Rutherford's model, Bohr's model of an atom, Neutrons, Distribution of electrons in different orbits, valancy, atomic number, mass number, isotopes, isobars CH- 12 Production of sound , propagation of sound, characteristic of a sound wave, reflection of sound, echo, reverberation, uses of multiple reflection of sound, range of hearing, applications of ultrasound, structure of human ear	on rubbing two objects together, they become electrically charged 2) Make a list of different types of musical instruments and discuss with your friends which part of the instrument vibrates to produce sound.
JAN	Revision		
FEB	Revision		
MAR	Annual Exam		