

ARMY PUBLIC SCHOOL, BELAGAVI

Splitup Syllabus 2025-26

CLASS: VI

SUBJECT : SCIENCE

MONTH	Name of the Chapter/ Topic to be covered
APRIL	Ch:1 The Wonderful World of Science: The essence of science and curiosity. Earth as our unique habitat, exploring beyond our planet, everyday science and collaboration. Ch:2 Diversity in the Living world: Diversity in Plants and Animals, Biodiversity, Grouping of Plants and Animals,
JUNE	Ch:2 Diversity in the Living world: Plants and Animals in different Surroundings, Adaptation, Habitat, Protecting biodiversity Ch:3 Mindful Eating A path to a healthy body: Food habits and culinary practices, traditional Food and Beverages in Different States of India,
JULY	Ch:3 Mindful Eating A path to a healthy body : Components of food,Test for different components of food, Balanced diet, Millets, food miles Ch:4 Exploring Magnets: Magnetic and Non-magnetic Materials, Poles of a Magnet, Finding Directions using a Magnet, Attraction and Repulsion between Magnets,fun with magnets
AUGUST	Ch:5 Measurement of Length and Motion: Standard Units, Correct Wav of Measuring Length ,measuring the Length of a Curved Line, Describing Position, types of Motion, Reference point Ch 6 Materials Around Us: Observing Objects Around Us, Identifying Materials, Grouping Materials Based on Properties
SPEPTEMBER	Ch 6 Materials Around Us: Selection of Materials for Making Objects
OCTOBER	Ch.7 Temperature and it's measurement: Temperature, laboratory and clinical thermometer, SI unit of emperature, Hot and Cold. Ch:8 A journey through States of Water: States of matter, evaporation, factors affecting evaporation
NOVEMBER	ch.8 A journey through States of Water: humidity, condensation, water cycle, Melting, Freezing. Ch:9 Methods of Separation in Everyday life: Winnowing. Sedimentation, Decantation, Evaporation, Hand picking, Magnetic separation
DECEMBER	Ch: 10 Living Creatures Exploring their Characteristics: Characteristics of Living Things, Components of a Habitat, Adaptations, life cycle of plant, life cycle of frog
JANUARY	Ch:11 Nature's Treasures: Air, Water, Forests, Soil, rocks, Minerals, Fossil fuels,Renewable and non renewable resources of energy.
FEBRUARY	Ch: 12 Beyond Earth: Stars, Constellation, Solar system,Planets, Satellites, Asteroids, Milky way galaxy
MARCH	Revision of full syllabus

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CLASS: VII

SUBJECT : SCIENCE

MONTH	Name of the Chapter/ Topic to be covered
APRIL	Mode of Nutrition in Plants, Photosynthesis – the food-making process in plants Other Modes of Nutrition in Plants (e.g., insectivorous plants) Saprotrophs and their nutrition How nutrients are replenished in soil.
JUNE	Different modes of feeding in animals, Human digestive system – structure and function Digestion in Grass-eating animals (ruminants) Feeding and digestion in Amoeba Activity-based learning: Digestive system labeling and demonstration
JULY	Chapter 4: Heat Hot and cold objects, Measurement of temperature (clinical & laboratory thermometers), Transfer of heat – conduction, convection, radiation Kinds of clothes we wear in summer and winter
AUGUST	Chapter 4 Acids, Bases and Salts Acids and bases – concepts Natural indicators (litmus, turmeric, china rose) Neutralisation, Neutralisation in daily life (indigestion, ant bite, soil treatment) Activity: Indicator tests using lab substances. Chapter 6: Physical and Chemical Changes Physical vs chemical changes Rusting of iron – conditions & prevention Crystallisation (basic idea) Burning, mixing substances – activities
SEPTEMBER	Chapter 6: Respiration in Organisms Need for respiration Types of respiration (aerobic, anaerobic) Human respiratory system Breathing in other animals and plants Activity: Breathing rate measurement.
OCTOBER	Chapter 7-Transportation in Animals and Plants Circulatory system – heart, blood vessels, blood Excretion in humans Transport of water and minerals in plants Activity: Pulse measurement Chapter 8: Reproduction in Plants Modes: Asexual & Sexual reproduction Budding, fragmentation, spore formation.

NOVEMBER	Chapter 8: Reproduction in Plants Sexual reproduction – flower structure Pollination, fertilisation, seed dispersal Activity: Flower dissection Chapter 9- Motion and Time Types of motion Measuring time – clocks and stopwatch Speed = Distance/Time Graphs – Distance-Time
DECEMBER	Chapter 10: Electric Current and its Effects (8 periods) Circuit diagrams, electric components Effects of electric current – heating and magnetic Electric bell working Activity: Circuit making, heating effect demo
JANUARY	Chapter 11: Light Rectilinear propagation of light Reflection by mirrors Real and virtual images Lateral inversion Images formed by lenses Activity: Mirror/light beam tracing Chapter 12: Forests: Our Lifeline (6 periods) chapter 12- Forest our lifeline ,Importance of forests Components of forests – flora and fauna Interdependence in forest ecosystems Conservation of forests
FEBRUARY	Chapter 13: Wastewater Story Wastewater and sewage Treatment of wastewater Sanitation and hygiene Role of citizens in managing wastewater Revision of PT 2 syllabus
MARCH	Revision of Full syllabus

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CLASS: VIII

SUBJECT : SCIENCE

MONTH	Name of the Chapter/ Topic to be covered
APRIL	<p><u>CH 1. Crop production and management</u></p> <p>a. Agricultural Practices - Preparation of land, Sowing, Adding manure & fertilizers, irrigation, weeding, harvesting, storage</p> <p>b. Animal Husbandry</p> <p>Introduction and explanation part of chapter 2 : Microorganisms - friends and foe</p>
JUNE	<p><u>CH 2. Microorganisms : Friends & Foe</u></p> <p>a. Classification of microorganism</p> <p>b. Useful microorganisms and uses</p> <p>c. Harmful microorganisms and diseases</p> <p>d. Disease causing pathogens</p> <p>e. Food preservation and methods</p> <p>f. Nitrogen fixation and Nitrogen Cycle</p>
JULY	<p><u>CH 3. Coal and Petroleum</u></p> <p>a. Natural resources - Exhaustible and In-exhaustible</p> <p>b. Coal :</p> <p>Storage of coal</p> <p>Coke</p> <p>Coal Tar</p> <p>Coal gas</p> <p>c. Petroleum</p> <p>d. Conservation of natural resources</p>

	<p><u>CH 4. Combustion and Flame</u></p> <ul style="list-style-type: none"> a. Combustion b. Ignition temperature c. control the fire d. Types of combustion e. Flame - structure of flame f. Fuel efficiency
<p>AUGUST</p>	<p><u>CH 6. Reproduction in Animals</u></p> <ul style="list-style-type: none"> a. Modes of reproduction - sexual & asexual b. Sexual reproduction - Male and female reproductive organs Fertilisation Development of embryo Viviparous animals Oviparous animals c. Asexual reproduction - Binary fission Budding
<p>SEPTEMBER</p>	<p><u>CH 7. Reaching the age of adolescence</u></p> <ul style="list-style-type: none"> a. Adolescence and Puberty b. Changes at puberty c. Primary and secondary sexual characters d. Role of hormones to initiate reproductive system e. Reproductive phase of life in humans f. Sex determination of baby g. Hormones other than sex hormones h. Life stages of frog and insects - metamorphosis i. Reproductive health and hygiene <p>REVISION FOR HYE</p>

OCTOBER	<p><u>CH 5. Conservation of plants and animals</u></p> <ul style="list-style-type: none"> a. Deforestation & its causes b. Cosequences of deforestation c. Conservation of forests and wildlife - Red Data Book d. Bioreserve, endemic species, ecosystem e. Migration f. Recycling of paper g. Reforestation
NOVEMBER	<p><u>CH 8. Force and Pressure</u></p> <ul style="list-style-type: none"> a. Push & Pull - exploring forces b. Forces due to interaction - c. Forces can change shape and state of motion d. Contact forces and non contact forces e. Friction f. Pressure g. Atmospheric pressure <p><u>CH 9. Friction</u></p> <ul style="list-style-type: none"> a. Force of friction b. Factors affecting friction c. Increasing and decreasing friction <p>REVISION OF PT-2</p>
DECEMBER	<p><u>CH 10. Sound</u></p> <ul style="list-style-type: none"> a. Features of sound b. Sound production by objects and humans c. Sound needs medium to travel d. Structure of ear e. Amplitude, time period, frequency f. Audible and inaudible range of sound in humans g. Noise pollution

JANUARY	<p><u>CH 11. Chemical effects of electric current</u></p> <p>a. How the electricity conduction happen in water b. Chemical effects of electric current c. Electroplating d. Circuit for electroplating</p>
	<p><u>CH 12. Some natural phenomena</u></p> <p>a. Lightening b. Charging by rubbing objects c. Types of charges d. Transfer of charges e. Reasons of the earthquake and lightning and earthquake safety f. Structure of earth</p>
FEBRUARY	<p><u>CH 13. Light</u></p> <p>a. Visibility of things b. Laws of reflection of light c. Regulat and diffused reflection d. Multiple reflection and multiple images e. Structure of human eye f. Braille system - visually impaired persons can read and write</p>
MARCH	REVISION FOR YEARLY EXAMINATION

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CLASS: IX

SUBJECT : SCIENCE

MONTH

Name of the Chapter/ Topic to be covered

APRIL

Chemistry: lesson-1- Matter in our surroundings

- *States of Matter
- *Characteristics of Matter particle.
- * Change of State of Matter.
- * Interconversion of States

Biology: The fundamental unit of life- cell structure and function, cell wall, cell membrane, types of solution, cell organelles and its function, cell division

Physics: Motion

Describing motion

Measuring the rate of motion

Rate of change of velocity

Graphical representation of motion

<p>JUNE</p>	<p><u>Chemistry: lesson-1- Matter in our surroundings</u> *States of Matter *Characteristics of Matter particle. * Change of State of Matter. * Interconversion of States</p> <p>Biology:The fundamental unit of life- cell structure and function, cell wall, cell membrane, types of solution,cell organelles and it's function, cell division</p> <p>Physics: Motion -Equations of motion by graphical method Uniform circular motion</p> <p>Chapter Force and Laws of Motion Balanced and unbalanced forces First law of motion</p>
<p>JULY</p>	<p>Chemistry : Lesson-2- Matter Around Us Pure *Mixtures & their types. *Properties of solution *Suspensions & their properties * Colloids & their properties * Seperating compounds from mixtures *Compounds & elements properties</p> <p>Biology:The fundamental unit of life- cell structure and function, cell wall, cell membrane, types of solution,cell organelles and it's function, cell division</p> <p>Physics: Chapter -Force and Laws of motion -Inertia and mass Second law of motion Third law of motion Conservation of momentum</p>

<p>AUGUST</p>	<p><u>Chemistry : Lesson-2- Matter Around Us Pure</u></p> <ul style="list-style-type: none"> *Mixtures & their types. *Properties of solution *Suspensions & their properties * Colloids & their properties * Separating compounds from mixtures *Compounds & elements properties <p>Biology: Improvement in Food resources -</p> <p>Physics:Gravitation Universal law of gravitation Importance of the universal law of gravitation Free fall To calculate the value of g Motion of objects under the influence of gravitational force of the earth</p>
<p>SPEPTEMBER</p>	<p><u>Chemistry : Lesson-3- Atoms and Molecules</u></p> <ul style="list-style-type: none"> * Laws of chemical combination * Law of conservation of mass * Atoms & Atomic mass * Writing Chemical formula * Molecules of elements and compounds * Ions - positive and negative *Molecular mass - Numerical <p>Biology:</p> <p>Physics: Gravitation -Mass Weight Weight of an object on the moon Thrust and pressure Pressure in fluids Buoyancy Why objects float or sink when placed on the surface of water? Archimedes' principle</p>

<p>OCTOBER</p>	<p><u>Chemistry : Lesson-3- Atoms and Molecules</u></p> <ul style="list-style-type: none"> * Laws of chemical combination * Law of conservation of mass * Atoms & Atomic mass * Writing Chemical formula * Molecules of elements and compounds * Ions - positive and negative *Molecular mass - Numerical <p>Biology:</p> <p>Physics: Chapter -Work Scientific Conception of Work Work Done by a Constant Force Energy Forms of Energy Kinetic Energy Potential Energy</p>
<p>NOVEMBER</p>	<p><u>Chemistry : Lesson-4- Structure of the Atoms</u></p> <ul style="list-style-type: none"> * Structure of Atoms * Atomic Models and Theories *Neutrons * Distribution of electrons * Shell concepts & Valency * Atomic number & Mass number * Isotopes and Isobars <p>Biology: Tissue- Animal tissues- epithelium tissue and its various types, connective tissue and it's types</p> <p>Physics: Chapter -Work -Potential Energy of an Object at a Height Are Various Energy Forms Interconvertible Law of Conservation of Energy Rate of Doing Work Chapter- Sound -Production of Sound Propagation of Sound Reflection of Sound</p>

DECEMBER	<p><u>Chemistry : Lesson-4- Structure of the Atoms</u></p> <ul style="list-style-type: none"> * Structure of Atoms * Atomic Models and Theories *Neutrons * Distribution of electrons * Shell concepts & Valency * Atomic number & Mass number * Isotopes and Isobars <p>Biology: Tissue - muscular tissue and types, Nervous tissue structure and function</p> <p>Physics:</p> <p>Chapter -sound</p> <p>Range of Hearing</p> <p>Applications of Ultrasound</p>
JANUARY	Revision of full syllabus
FEBRUARY	Revision of full syllabus
MARCH	Revision of full syllabus

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CLASS: X

SUBJECT : SCIENCE

MONTH	Name of the Chapter/ Topic to be covered
APRIL	<p><u>Chemistry: Lesson 1-Chemical Reactions & Equations</u></p> <ul style="list-style-type: none">* Chemical Equations - writing & balancing* Types of Chemical Reactions* Corrosion, Rancidity <p>Biology: Life Processes- Nutrition and it's types, autotrophic mode of nutrition in detail, photosynthesis, heterotrophic nutrition and its types, holozoic nutrition, nutrition in human beings, Respiratory system, transportation system in plants and animals</p> <p>Physics:Chapter : Electricity</p> <ul style="list-style-type: none">- Electric Current- Electric Potential and Potential Difference- Electric Circuit and Circuit Diagram- Ohm's Law- Resistance and Resistivity- Combination of Resistors<ul style="list-style-type: none">- Resistors in Series- Resistors in Parallel- Heating Effect of Electric Current- Electric Power

<p>JUNE</p>	<p><u>Chemistry: Lesson-2- Acids Bases & Salts</u> * Chemical properties of Acids & Bases * Reactions of acids & bases with metals, carbonates And Hydrogen carbonates, Metallic Oxide * Different salts and their properties</p> <p>Biology: Life Processes -Exerction in human beings and in plants, artificial kidney, environment - Introduction to Ecosystem</p> <p>Physics: Chapter -Magnetic Effects of Electric Current - Magnetic Field and Field Lines - Magnetic Field due to a Current-Carrying Conductor - Magnetic Field due to a Current through a Straight Conductor - Magnetic Field due to a Current through a Circular Loop</p> <p style="text-align: right;">chp 2- Our</p>
<p>JULY</p>	<p><u>Chemistry: Lesson -3- Metals & Nonmetals</u> * Properties of Metals & Nonmetals, * Reaction of metals with air & water, * The reactivity series * Occurence & Extraction of metals</p> <p>Biology: Our Environment - food chain and food webs, flow of energy in the ecosystem, ozone layer depletion , Managing the garbage</p> <p>Physics: Chapter -Magnetic effects of electric current - Force on a Current-Carrying Conductor in a Magnetic Field, Domestic electric circuits</p>

Chemistry: Lesson -3- Metals & Nonmetals

- * Properties of Metals & Nonmetals,
- * Reaction of metals with air & water,
- * The reactivity series
- * Occurrence & Extraction of metals

Biology: Control and Coordination - Human brain, reflex action nervous system, coordination in plants, immediate response to stimulus, movement due to growth, geotropism, hormones in animals

AUGUST

Physics: Chapter -Light Reflection of Light

Spherical Mirrors

Image Formation by Spherical Mirrors

Representation of Images Formed by Spherical Mirrors Using Ray Diagrams

Sign Convention for Reflection by Spherical Mirrors

Mirror Formula and Magnification

Refraction of Light

Refraction through a Rectangular Glass Slab

The Refractive Index

Refraction by Spherical Lenses

Chemistry: Lesson-4- Carbon & its Compounds

- * Chemical bonding
- * Nature of Carbon & its properties
- * Saturated and Unsaturated Carbon compounds
- * Chain Branches & Rings
- * Homologous Series
- * Nomenclature of Carbon Compounds
- * Chemical properties of Carbon compounds,
- * Soap & Detergents structure & Properties

SPEPTEMBER

Biology: How do organisms reproduce - the importance of variation, modes of reproduction uses by single organisms fission, fragmentation, Regeneration, Budding, Vegetative propagation, sexual reproduction in flowering plants and in human beings, reproductive organs and health

Physics: chapter -Light -Image Formation by Lenses
Image Formation in Lenses Using Ray Diagrams
Sign Convention for Spherical Lenses
Lens Formula and Magnification
Power of a Lens

OCTOBER	<p><u>Chemistry: Lesson-4- Carbon & its Compounds</u></p> <ul style="list-style-type: none"> * Chemical bonding * Nature of Carbon & its properties * Saturated and Unsaturated Carbon compounds * Chain Branches & Rings * Homologous Series * Nomenclature of Carbon Compounds * Chemical properties of Carbon compounds, * Soap & Detergents structure & Properties <p>Biology: Heredity - Accumulation of variation during reproduction, inherited traits, rules of inheritance , Mendel's contribution and sex determination</p> <p>Physics: Chapter -The Human eye and the colourful world - The Human Eye Defects of Vision and their Correction Power of Accommodation Myopia (Near-sightedness) Hypermetropia (Far-sightedness) Presbyopia Refraction of Light Through a Prism Dispersion of White Light by a Glass Prism Atmospheric Refraction Twinkling of Stars Scattering of Light</p>
NOVEMBER	Revision of full syllabus
DECEMBER	Revision of full syllabus pre board 1
JANUARY	Pre board 1