

ARMY PUBLIC SCHOOL, BANGALORE
SPLIT UP SYLLABUS 2024-25

CLASS - 10
SUBJECT- SCIENCE

SL. NO.	MONTH & WORKING DAYS	CONTENT
1.	APRIL, 13 DAYS	<p>Chapter: Chemical reactions and equations Introduction to Physical and chemical changes.(along with Examples) Introduction to Chemical Equation. Skeletal and Balanced Equation.</p> <p>Chapter: Light Reflection in Plane Mirror. Laws Of Reflection Numerical Problems Based on Laws of Reflection</p> <p>6. Life process (Nutrition)</p>
2.	JUNE, 16 DAYS	<p>Chapter: Chemical reactions and equations Laws of Chemical Combination Methods of writing chemical equations: Balancing Equations, Writing formulae and symbols in the balanced equations. – Types of reactions(Till combination Reaction)</p> <p>Chapter: Light Reflection in spherical mirror-Terminology, Fundamental knowledge of Drawing ray diagrams of Spherical mirrors.</p> <p>6. Life process (Digestion & Respiration)</p>
3.	JULY, 25 DAYS	<p>Chapter: Chemical reactions and equations Types of decomposition reaction-rancidity, corrosion</p> <p>Chapter: Light Sign convention for reflection by spherical mirrors, Mirror formula and magnification. Refraction of light, Refraction of light through a rectangular glass slab, refractive index, Refraction by spherical lenses, image formation in lenses using ray diagrams</p>

		6. Life processes (Transportation & Excretion in plants and animals.)
4.	AUG, 23 DAYS	<p>Chapter: acids bases and salts Properties of acids and bases application of pH – Useful salts –preparation and properties and uses</p> <p>Chapter: Light sign convention for spherical lenses, Lens formula and magnification, power of lens</p> <p>Chapter. Control & Coordination in animals and plants Tropic movements in plants, Introduction of plant hormones, Control and co-ordination in animals, nervous system , voluntary and involuntary, reflex action,</p>
5.	SEPT, 21 DAYS	<p>Chapter: Metals and non-metals. Physical properties of metals –chemical properties of metals-reactivity series</p> <p>Chapter: Human Eye and Colorful World Human eye, power of accommodation -Defects of vision and their correction Refraction through a prism, formation of rainbow, atmospheric refraction-scattering of light, Tyndall’s effect, application in daily life</p> <p>Chapter: Electricity Electric current and circuit, electric potential and potential difference, Circuit diagrams - Ohm’s law, resistance, resistivity,</p> <p>Chapter. Control & Coordination in animals and plants Chemical co-ordination, in animals and their hormones</p>
6.	OCT, 15 DAYS	<p>Chapter: Metals and non-metals. Formation of ionic compound NaCl, CaCl₂ properties Extractions of metals</p> <p>Chapter: Electricity Resistance of a combination of resistors, resistors in series. Revision for half-yearly</p> <p>8. How do organisms reproduce Reproduction in animals and plants (asexual and sexual) Reproductive health-Need and methods of family planning and awareness of HIV/AIDS , childbearing and women’s health</p>

7.	NOV, 21 DAYS	<p>Chapter: Carbon compounds Nature of carbon-covalent bonds in H₂, N₂ etc structure of methane, ethane, ethyne-hydrocarbons-functional groups nomenclature</p> <p>Chapter: Electricity Resistors in parallel, heating effect of electric current, Electric power</p> <p>Chapter: Magnetic effects of electric current Magnetic field and field lines, magnetic field due to a current carrying conductor</p> <p>9. Heredity Mendellian laws, Monohybrid and Dihybrid cross, sex determination</p>
8.	DEC, 18 DAYS	<p>Chapter: Carbon compounds Ethanol, ethanoic acid, soap and detergent-cleansing action</p> <p>Chapter: Magnetic effects of electric current Electromagnetic induction Induced potential and induced current.</p> <p>15. Our Environment Ecosystem, Environmental problems, Ozone depletion, Waste production and their solution, Bio- degradable and Non Bio-degradable substances</p>
9.	JAN, 23 DAYS	Revision/Preboard-I
10.	FEB, 24 DAYS	Revision/Preboard-II

BOOKS: BOOKS: NCERT References Pradeep publication ,Full marks S.Chand publication(phy, chem and bio) , PL SONI Fundamental Physics etc.