

ARMY PUBLIC SCHOOL, BANGALORE
SPLIT UP SYLLABUS 2023-24

CLASS - 10
SUBJECT- SCIENCE

SL. NO.	MONTH & WORKING DAYS	CONTENT
1.	MARCH, 13 DAYS	Chapter: Chemical reactions and equations Introduction to Physical , Chemical changes.(along with Examples) Introduction to Chemical Equation. Skeletal and Balanced Equation. Chapter: Light Reflection in Plane mirror. Laws Of Reflection Numerical Problems Based on Laws Of Reflection 6.Life process (Nutrition) Introduction to the Chapter
2.	APRIL, 14 DAYS	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) Chapter: Light Reflection in spherical mirror-Terminology, Fundamental knowledge of Drawing ray diagrams of Spherical mirrors. 6.Life process (Digestion & Respiration)

3.	JUNE, 24 DAYS	<p>Chapter: Chemical reactions and equations</p> <p>Types of decomposition reaction-rancidity, corrosion</p> <p>Chapter: Light</p> <p>Sign convention for reflection by spherical mirrors, Mirror formula and magnification.</p> <p>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> <p>6.Life processes (Transportation & Excretion in plants and animals.)</p>
4.	JULY, 23 DAYS	<p>Chapter: acids bases and salts</p> <p>Properties of acids and bases application of pH – Useful salts –preparation and properties and uses</p> <p>Chapter: Light</p> <p>sign convention for spherical lenses, Lens formula and magnification, power of lens</p> <p>Chapter. Control & Coordination in animals and plants</p> <p>Tropic movements in plants, Introduction of plant hormones, Control and co-ordination in animals, nervous system , voluntary and involuntary, reflex action,</p>
5.	AUG, 24 DAYS	<p>Chapter : Metals and non-metals.</p> <p>Physical properties of metals –chemical properties of metals-reactivity series</p> <p>Chapter: Human Eye and Colorful world</p> <p>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</p> <p>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</p> <p>Chemical co-ordination, in animals and its hormones.</p>

6.	<p style="text-align: center;">SEPT, 22 DAYS</p>	<p>Chapter: Metals and non-metals. Formation of ionic compound NaCl, CaCl₂ properties Extractions of metals Chapter: Electricity Resistance of a combination of resistors, resistors in series. Revision for half yearly 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 , Child bearing and women's health</p>
7.	<p style="text-align: center;">OCT, 16 DAYS</p>	<p>Chapter: Carbon compounds Nature of carbon-covalent bonds in H₂, N₂ etc structure of methane, ethane, ethyne-hydrocarbons-functional groups nomenclature Chapter: Electricity Resistors in parallel, heating effect of electric current, Electric power Chapter: Magnetic effects of electric current Magnetic field and field lines, magnetic field due to a current carrying conductor 9. Heredity Mendellian laws, Monohybrid and Dihybrid cross, sex determination</p>
8.	<p style="text-align: center;">NOV, 21 DAYS</p>	<p>Chapter: Carbon compounds Ethanol, ethanoic acid, soap and detergent-cleansing action Chapter: Magnetic effects of electric current Electromagnetic induction Induced potential and induced current. 15. Our Environment Ecosystem, Environmental problems, Ozone depletion, Waste production and their solution, Bio- degradable and Non Bio-degradable substances.</p>

9.	DEC, 18 DAYS	revision/preboard
10.	JAN, 23 DAYS	pre-board
11.	FEB, 24 DAYS	board exams
12.	MARCH, 21 DAYS	board exams

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