

O.P. JINDAL SCHOOL, SAVITRI NAGAR
ANNUAL SYLLABUS (2025-26)

CLASS-X

SUBJECT-SCIENCE

Month	No. of Instructional days	Chapter	Learning Objective/ Values imparted	Enrichment Activity	Extra content
APRIL	23	1. Chemical Reactions and Equations	Understand the phenomenon of chemical reactions and types of chemical reactions	Activity Demonstration and discussion of types of chemical reactions	Worksheet of balancing equation.
		5.Life processes	Understand the types of nutrition, human respiratory system,types of respiration	To study stomata in leaf peel	Worksheet of nutrition and Respiratory disorders
		9. Light – Reflection and Refraction	Understand the phenomenon of light and reflecting surfaces (mirrors)	To show bouncing back of light using plane mirror and spherical mirrors.	Worksheet for Reflection of light

JUNE	4	2.Acids,bases and salts	Understand the concept of Acid, base, indicators and preparation of some common salts.	Activity Demonstration and discussion of types of indicators and pH of acids and bases.	Worksheet of Chemical properties of acids and bases
		5.Life processes	Understand the concept of transpiration and translocation ,human circulatory system and human excretory system	To study ascent of sap .	Electrocardiograph. SAN Pacemaker of heart, Dialysis
		9. Light – Reflection and Refraction	Understand how ray behaves after striking transparent surfaces, Refraction of light, and lens. Understand image formation for different positions of objects for both Lens.	To find the focal length of concave mirror. To find the focal length of lens.	Worksheet for Refraction of light

JULY	26	3.Metals and Non Metals	Understand the concept of Metals and non metals, chemical properties of metals	Demonstration and discussion of reactivity of different types of metals with acids and bases.	Worksheet of Chemical properties of metal and non metals.
		6.Control and coordination	Understand the concept of reflex action and reflex arc, types of tropism, parts of brain	To demonstrate activity of phototropism and geotropism	Worksheet of human hormones and plant hormones
		9.Light- Refraction of light 10.Human eye and colourful world	Lens formula and numerical. Linear magnification by lens. Power of lens. Human Eye : Description of parts, Defect of Eyes, Dispersion of light. Scattering of light. Natural phenomenon by refraction. Applications of scattering of light.	Activity on image formation by lens. Dispersion by prism. Tracing of path of ray of light using glass slab. Tracing of path of ray of light using glass prism.	Worksheet on Lens formula

AUGUST	23	3.Metals and Non Metals	Understand the concept of extraction and refining of metals from their ores.	To study pyramid of number, pyramid of energy.	Worksheet of ten percent law, flow of energy.
		11.Electricity	Students will be able to know the concept of Potential difference and electric current. Factors affecting Resistance. Ohm's Law: Concept and verification. Ohmic conductors and Graphs, Resistivity. Understand series and parallel arrangement of resistors, Heating effect of current, Power.	Ohm's law-To study the variation of current and Potential difference. Arrangement of resistors	PYQ on Electricity
		8.Heredity	Understand the concept of Mendel's Law	To study Law of dominance. Law of segregation	Worksheet of acquired trait , inherited trait
		13.Our Environment	Understanding the concept of food chain, food web.		
SEPT	10		Half Yearly Examination		

OCT	17	4. Carbon and its compound (Continue)	Understand versatile nature of carbon, hydrocarbons, nomenclature, isomerism, types of chemical reactions of organic compounds. (Continue)	Demonstration and discussion of Chemical properties of alcohol. Demonstration and discussion of Chemical properties of Ethanoic acid.	Worksheet of Nomenclature of hydrocarbons and functional group practice. Chemical properties of alcohol and Ethanoic acid.
		8. How do organisms reproduce ?	Understand the concept of asexual and sexual reproduction	To study vegetative reproduction.	Worksheet of reproduction in flowering plant
		12. Magnetic effect of electric current	Oersted Experiment Understand the properties of magnet. Right hand thumb rule. Solenoid and its use (Continue)	Activity on series and parallel. Demonstration of magnetic field. Making of electromagnet	PYQ on Magnetic effects of current
NOV	22	4. Carbon and its Compound (Continue)	Understand Chemical properties of alcohol and acetic acid. soap and detergents.		PYQ on Carbon and its Compound
		12. Magnetic effect of electric current (Continue)	Force on current carrying conductor Fleming Left hand rule, Domestic Electric Circuit.		PYQ on Magnetic effects of current
DECEMBER	13		Pre Board -I Examination		

JANUARY	25	Pre Board -II Examination	
FEBRUARY	23		
MARCH	NIL	CBSE BOARD EXAMINATIONS (AISSE 2025-26)	

SYLLABUS FOR EXAMINATION

SN.	EXAMINATION	MONTH	MAX.MARKS	MAX.TIME	SYLLABUS FOR EXAMINATION
1	P.T-1(Round -1)	April	20	1 Hr	1,5,9
	P.T-1(Round -2)	July	20	1Hr	2, 6,10
2	HALFYEARLY	September	80	3Hrs	1,2,5,6,9,10 ,11
3	P.T-2(Round -1)	November	20	1Hrs	3,8,12,13
	P.B-1	December	80	3Hrs	1,2,3,4,5,6,7,8,9, 10,11,12,13
4	P.B-2	January	80	3Hrs	1,2,3,4,5,6,7,8,9,10,11,12,13