

O.P.JINDAL SCHOOL,SAVITRI NAGAR
ANNUAL SYLLABUS (2023-24)
SUBJECT-SCIENCE

CLASS-X

Month	ID	NO.OF PERIODS	Chapter	Learning Objective/ Values imparted	Enrichment Activity	Extra content
APRIL	21		1.Chemical reactions 6.Life processes (cont.) 12.Light-Reflection of light	1.Understand the phenomenon of chemical reactions and types of chemical reactions 6.Understand the types of nutrition, human respiratory system, types of respiration Understand the phenomenon of light and reflecting surfaces (mirrors)	1.Demonstration and discussion of types of chemical reactions 6.To study stomata in leaf peel To show bouncing back of light using plane mirror and spherical mirrors.	1.Worksheet of balancing equation.10 MCQ based for NTSE / OLYMPIADS 6.Worksheet of nutrition and Respiratory disorders 12.Worksheet ,10 MCQ based for NTSE / OLYMPIADS
JUNE	11		2.Acids,bases and salts 6.Life processes 12. Light- Linear magnification, Refraction of light.	2.Understand the concept of Acid, base, indicators and preparation of some common salts. 6.Understand the concept of transpiration and translocation ,human circulatory system and human excretory system 12. Understand how ray behaves after striking transparent surfaces.	2. Demonstration and discussion of types of indicators and pH of acids and bases. 6. To study ascent of sap. 12. To find the focal length of concave mirror and lens.	2.Worksheet ,10 MCQ based for NTSE / OLYMPIADS 6.Electrocardiograph.SAN Pacemaker of heart, Dialysis 10 MCQ based for NTSE / OLYMPIADS

JULY	24	<p>3. Metals and Non Metals</p> <p>7. Control and coordination</p> <p>12. Light- Refraction of light</p> <p>11. Human eye and colorful world</p>	<p>3. To Understand the concept of Metals and non metals, chemical properties of metals</p> <p>7. Understand the concept of reflex action and reflex arc, types of tropism, parts of brain</p> <p>12. Refraction of light, and lens.</p> <p>11. Understand image formation for different positions of objects Lens formula and numerical. Linear magnification by lens. Power of lens. Dispersion of light. Scattering of light. Applications of scattering of light.</p>	<p>3. Demonstration and discussion of reactivity of different types of metals with acids and bases.</p> <p>7. To demonstrate activity of phototropism and geotropism</p> <p>12. Activity on image formation by lens.</p> <p>11. Dispersion by prism. Tracing of path of ray of light using glass slab. Tracing of path of ray of light using glass prism.</p>	<p>3. Worksheet of Chemical properties of metal and non Metals.</p> <p>7. Worksheet of human hormones and plant hormones</p> <p>10 MCQ based for NTSE / OLYMPIADS</p> <p>10 MCQ based for NTSE / OLYMPIADS</p>	
AUGUST	25	<p>3. Metals and Non Metals</p> <p>10. Electricity (continue)</p> <p>15. Our Environment</p>	<p>3. Understand the concept of extraction and refining of metals from their ores.</p> <p>10. Students will be able to know the concept of Potential difference and electric current.</p> <p>15. Understanding the concept of food chain, food web.</p>	<p>3. Discussion of extraction of metals.</p> <p>10. Ohm's law - To study the variation of current and Potential difference.</p> <p>15. To study pyramid of number pyramid of energy.</p>	<p>10 MCQ based on NTSE/OLYMPIAD</p> <p>10...Electrical circuit based problems for NTSE.</p> <p>15. Worksheet of ten percent law, flow of energy.</p>	
SEPT	25	Half Yearly Examination				
OCT	20	<p>4. Carbon and its compound</p> <p>8. How do organisms reproduce</p>	<p>4. Understand versatile nature of carbon, hydro carbons, nomenclature, isomerism, types of chemical reactions of Organic compounds.</p> <p>8. Understand the concept of asexual and sexual reproduction</p>	<p>4. Demonstration and discussion of Chemical properties of alcohol.</p> <p>8. To study vegetative reproduction.</p>	<p>4. Worksheet of Nomenclature of hydrocarbons and functional group practice .</p> <p>8. Worksheet of reproduction in flowering plant.</p>	

			10.Electricity	10. Understand series and parallel arrangement.	10.Activity on series and parallel arrangement of resistors.	10.Electrical circuit based problems for NTSE/OLYMPIAD
NOV	16		4. Carbon and its compound(cont) 9.Heredity and evolution 13.Magnetic effect of electric current.	4. Understand Chemical properties of alcohol and acetic acid. Soap and detergents. 9.Understand the concept of Mendel's Law 13.Understand how current changes on changing potential. Factors on which resistance depend.	4. Demonstration and discussion of Chemical properties of ethanoic acid. 9.To study Law of dominance, Law of segregation 13.Demonstration of magnetic field.	4. Worksheet , 10 MCQ based on NTSE/OLYMPIAD 9. Worksheet of acquired trait , inherited trait 10 MCQ based on NTSE/OLYMPIAD
DECEMBER	22		13.Magnetic effects of electric current	13. Understand the properties of magnet. Uses of solenoid. Understand effect of current and different magnetic field producing sources.	13. Making of electromagnet.	10 MCQ based on NTSE/OLYMPIAD
JANUARY	23		POST MID TERM			
FEBRUARY	24		REVISION -PREBOARD EXAM			
MARCH	13		REVISION. -ANNUAL EXAM			