

# MORARJI DESAI RESIDENTIAL SCHOOL, BEVOOR, T: YELBURGA

## Class: X YEAR PLAN (SCIENCE) 2021-22

Month	Periods Available	Chapters/ Content	Periods Required	Teaching Aids	Completed/ Not Completed	Reason For Not Completing	Homework Given	Sub-Teacher's Sign	Principal's Sign
July	26	Bridge Course Pre Test Remedial Teaching Post Test	26	Videos PPT Notes					
August	25	<b>1) Chemical Reactions and Equations</b> -Balancing chemical equations Types of chemical reactions -Oxidation and reduction	09	NaOH HCl H <sub>2</sub> SO <sub>4</sub> Water Charts					
		<b>2) Acids, Bases and Salts</b> -Reactions of acids with metals -Acid base reactions pH and Salts	09	Charts Acids, bases Salts Litmus paper					
		<b>3) Life Processes</b> -Types of nutrition -Respiration -Transportation in human beings and plants Excretion	07	Charts Models Videos					
September	25	<b>4) Electricity:</b> Electric Current and Circuit Electric potential and potential difference, Circuit Diagram, Ohm's Law Factors on which the resistance, Heating effect Electric Power <b>FA 1</b>	12          03	Copper wire Cells Bulb Other metals  Charts,					

		<b>5) Metals and Non-Metals</b> -Physical Properties -Metals and their reactions -Ionic compounds -Extraction of metals -Corrosion	10	Common salt, rusted iron strip or nail, charts					
<b>October</b>	<b>16</b>	<b>6) Control and Co-ordination:</b> -Animals- nervous system, Reflex action and brain -Coordination in Plants -Animal hormones <b>Mid-Term Examination</b>	14	Charts Model of brain					
		<b>Mid-Term Examination</b>	02						
<b>November</b>	<b>22</b>	<b>7) Magnetic Effects of Electric Current:</b> Magnetic Field Right – Hand thumb rule Magnetic field due to a current in a solenoid. Force on a current carrying conductor in a magnetic field Electric motor Electromagnetic Induction. Electric Generator. Domestic electric circuits  <b>8) Our Environment</b> -Ecosystem -Food chain -Depletion of ozone <b>FA 2</b>	04	Bar magnets					
			12	Copper wire					
				Charts					
				Videos					
				Charts of food chains and ecosystems					
			04						
			02						

December	27	<b>9) Carbon and Its Compounds</b> -Unique nature of carbon - Carbon compounds- Saturated and unsaturated -Homologous series -Nomenclature of carbon compounds -Chemical properties of carbon -Important carbon compounds -Soaps and detergents	14	Charts Videos PPT					
		<b>10) Light –Reflections and Refraction (P)</b> Reflection of light Spherical Mirrors Image formation by spherical mirrors. Ray diagrams Sign conventions for reflection. Mirror formula & Magnification Refraction of light Power of Lenses.	11	Glass slab Prism Mirrors Lenses Candles Screen Chart					
		<b>11) Periodic Classification of Elements</b> -Newland’s law of octaves Dobereiner’s Law	02	Periodic Table					
		<b>11) Periodic Classification of Elements (Contnd....)</b> -Mendeleev’s periodic table -Modern periodic table	04	Charts Periodic Table					

<p><b>January</b></p>	<p><b>25</b></p>	<p>-Periodic trends  <b>12) How do Organisms Reproduce?</b>          -Reproduction in single organisms-types -Sexual reproduction in plants. Reproduction in humans  <b>FA 3</b>  <b>13) Heredity and Evolution</b>          -Mendel’s contributions          -Sex determination          -Evolution, Fossils          -Human evolution    <b>11. Human Eye and Colourful world</b>          The human eye(Power of accommodation), Defects of vision &amp; their correction,</p>	<p>09   02  08   02</p>	<p>Models Charts  Videos  Charts  Videos   Eye model Videos</p>					
<p><b>February</b></p>	<p><b>23</b></p>	<p><b>11. Human Eye and Colourful world(Contnud...)</b>          Refraction of light through a prism, Dispersion of white light by glass prism. Atmospheric refraction Scattering of light Tindal effect and its application.    <b>15. Sources of Energy:</b>          Good source of Energy, Conventional sources of energy, Improvements in technology for using</p>	<p>08       08</p>	<p>Chart   Charts Prism Videos</p>					

		<p>conventional sources of energy. Alternative or Non-Conventional sources of energy Energy from the Sea. Geothermal &amp; Nuclear Energy, Environmental consequences, How long will an energy sources last us?</p> <p><b>16Sustainable Management of Natural Resources</b> Need to manage natural resources. Forest and wildlife. Water for all. Coal and Petroleum <b>FA -4</b></p>	08	<p>Charts</p> <p>Pictures</p> <p>Videos</p>					
<b>March</b>	<b>25</b>	<b>Daily Test</b> <b>Revision and series test/examination</b>							
<b>April</b>	<b>24</b>	<b>Revision</b> <b>Preparatory Exams</b> <b>SSLC Examination</b>	24						

Subject Teacher's Signature

Principal's Signature