## MORARJI DESAI RESIDENTIAL SCHOOL, BEVOOR, T: YELABURGA

## Class: X YEAR PLAN (SCIENCE) 2020-21

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
May	02	Bridge Course	02						
June	26	Bridge Course Contd - Diversity in Living Organisms -Management of Natural Resources -Structure of Atom -Why do we Fall III -Work and Energy -Sound 1) Chemical Reactions and Equations -Balancing chemical equations Types of chemical reactions -Oxidation and reduction	03 02 02 03 03 04 09	NaOH HCl H2SO4 Water Charts					
		<ul> <li>2) Acids, Bases and Salts <ul> <li>Reactions of acids with</li> <li>metals</li> <li>Acid base reactions</li> <li>pH and Salts</li> </ul> </li> <li>3) Life Processes <ul> <li>Types of nutrition</li> <li>Respiration</li> <li>Transportation in human</li> <li>beings and plants</li> <li>Excretion</li> </ul> </li> </ul>	08 08	Charts Acids, bases Salts Litmus paper Charts Models Videos					

July	27	4) Electricity: Electric Current and Circuit Electric potential and potential difference, Circuit Diagram, Ohm's Law Factors on which the resistance, Heating effect	11	Copper wire Cells Bulb Other metals			
		Electric Power FA-1					
August	24	<ul> <li>5) Metals and Non- Metals</li> <li>Physical Properties</li> <li>Metals and their reactions</li> <li>Ionic compounds</li> <li>Extraction of metals</li> <li>Corrosion</li> <li>6)Control and Co- ordination: -Animals- nervous system, Reflex action and brain</li> <li>-Coordination in Plants</li> <li>-Animal hormones</li> </ul>	10	Charts, Common salt, rusted iron strip or nail, charts Charts Model of brain			
September	25	7) Magnetic Effects of Electric Current: 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	12	Bar magnets Copper wire Charts Videos			

October	5	electric circuits 8) Our Environment -Ecosystem -Food chain -Depletion of ozone FA 2 Mid-Term Examinations 9) Carbon and Its Compounds -Unique nature of carbon - Carbon compounds- Saturated and unsaturated	06 02 05 05	Charts of food chains and ecosystems Charts			
November	23	-Homologous series -Nomenclature of carbon compounds -Chemical properties of carbon -Important carbon compounds -Soaps and detergents <b>10) Light –Reflections</b> <b>and Refraction (P)</b> Reflection of light Spherical Mirrors	09	Charts Periodic Table Models			
		Image formation by spherical mirrors. Ray diagrams Sign conventions for reflection. Mirror formula & Magnification Refraction of light Power of Lenses. <b>11) Periodic</b> <b>Classification of</b> <b>Elements</b> -Newland's law of	10	Glass slab Prism Mirrors Lenses Candles Screen			

		octaves -Mendeleev's periodic table -Modern periodic table -Periodic trends	04	Periodic Table			
		<ul> <li>12) How do Organisms</li> <li>Reproduce?</li> <li>-Reproduction in single</li> <li>organisms-types -Sexual</li> <li>reproduction in plants.</li> </ul>	08	Charts Videos			
		Reproduction in humans 13) Heredity and Evolution -Mendel's contributions	7				
December	25	-Sex determination -Evolution, Fossils -Human evolution	/	Charts			
		FA-3 11. Human Eye and Colourful world		Videos			
		The human eye(Power of accommodation), Defects of vision & their	02				
		correction, Refraction of light through a prism, Dispersion of white light	08	Eye model Videos			
		by glass prism. Atmospheric refraction Scattering of light		Charts			
		Tindal effect and its application.		Prism			
		<b>15. Sources of Energy:</b> Good source of Energy,					
		Conventional sources of energy, Improvements in technology for using		Charts			

		conventional sources of		Pictures		
		energy. Alternative or				
		Non-Conventional		Videos		
		sources of energy	08			
		Energy from the Sea.				
		Geothermal & Nuclear				
		Energy, Environmental				
January	25	consequences, How long				
		will an energy sources last				
		us?				
		16Sustainable				
		Management of Natural				
		Resources				
		-Need to manage natural	08			
		resources				
		-Forest and wildlife		Charts		
		-Water for all. Coal and				
		Petroleum		Pictures		
		<b>Revision and series</b>				
		test/examination	09	Videos		
		FA-4	03			
February	24	Revision	09			
		Daily Test				
		Preparatory Exams				
March	26	Daily Test	26			
April	12	<b>Preparatory Exams</b>	12			
		SSLC Examination				

Subject Teacher's Sign

Principal's Signature