

-: 8th GRADE NCERT SCIENCE UNIT PLAN 2020-21:-

Months And Periods	Units and Subunits details	Periods distributions	Whether Completed or not/If not reasons	Measures taken to complete	Details of given activities		Assigned /Project work	Unit Test	Teacher's Sign	HM's Sign
					Given	Corrected				
June 18	Bridge Course Programme :- * Pre-Test * Bridge Course * Post Test * Remedial Teaching * Preparation of School Annual Plan	18								
June 08	Unit- Crop Production and Management (Biology)									
	Introduction , Agricultural Practices	1								
	Basic practices in crop production	1								
	Preparation of Soil and Agricultural Implements	1								
	Sowing , Adding manure and fertilizers	1								
	Irrigation , Protection from Weeds	1								
	Harvesting, Storage, Food from animals	1								
	Exercise Activities, Unit Test	1								
Unit-2 Micro Organisms : Friend And Foe(Biology)										
July3	Introduction ,Where do Micro Organisms live?	1								
	Friendly Micro organisms Making of Curd and Bread , Commercial uses	1								
	Vaccines and Role of Microbes-In cleaning the environment	1								

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July 05	Harmful Organisms- Disease Causing micro organisms In Humans	1								
	Disease causing MicroOrganisms in Plants and Animals , Food Poisoning	1								
	Methods of Food Preservativation,	1								
	Nitrogen fixation and Nitrogen cycle	1								
	Exercise Activities, Unit Test	1								
Unit- 3.Synthetic Fibres And Plastics (Chemistry)										
July 06	Introduction , Synthetic Fibres	1								
	Types of Synthetic Fibres :- Rayon , Nylon	1								
	Polyester and Acrylic , Properties of Synthetic fibres	1								
	Plastics as Materials of Choice	1								
	Plastic and the Environment	1								
	Exercise Activities, Unit Test	1								
Unit 7: Force and Pressure(Physics)										
July 03	Introduction , Meaning of Force and Pressure									
	Force : Push or Pull									
	Force is due to an Interaction b/w objects , Identifying actions as Push or Pull									

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July 07	Force can change State of Motion of an object	1								
	Force can Change the Shape of an object	1								
	Contact Forces:- Muscular force and Friction	1								
	Non-Contact Force:- Magnetic Force,Electrostatic Force and Gravitational Force	1								
	Pressure:- Pressure Exerted by Liquids and Gases	1								
	Atmospheric pressure	1								
	Exercise Activities & Unit Test	1								
July	Formative Assesment - 01									
Unit- 4 Metals and Non metals(Chemistry)										
August 06	Introduction , Physical properties of metals and non metals .	1								
	Chemical Properties of Metals and non metals	1								
	Reactions With Water and Acids	1								
	Reaction withBases and Displacement Rxns	1								
	Uses of Metals and Non-Metals	1								
	Exercise Activities & Unit Test	1								

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Unit- 6.Conservation Of Plants And Animals(Biology)										
August 08	Introduction , Importance of Conservation of Plants and Animals	1								
	Deforestation ; - Causes and Consequences of deforestation	1								
	Conservation of Forest and Wild Life , Bio Sphere Reserve	1								
	Flora and Fauna , Endemic Species	1								
	Wild-life Sanctuaries , National parks	1								
	Red Data Book , Migration	1								
	Recycling of Paper and Reforestation	1								
	Exercise Activities & Unit Test	1								
Unit- 8 Friction(Physics)										
August 06	Introduction , Friction	1								
	Factors affecting friction	1								
	Friction:-A Necessary Evil	1								
	Increasing and Reducing Friction	1								
	Sliding and Rolling frictions	1								
	Exercise Activities & Unit Test	1								

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Unit- 5.Coal And Petroleum(Chemistry)										
September 05	Introduction , Natural Resources	1								
	Coal , Coke and Coal gas	1								
	Petroleum and Refining of Petroleum	1								
	Natural Gas , Limited Natural Resources	1								
	Exercise Activities & Unit Test	1								
Unit 9 : Sound (Physics)										
September 08	Introduction , Importance of Sound	1								
	Sound produced by Vibrating objects.	1								
	Sound Production : Humans	1								
	Medium is needed for the propagation of sound , We hear sound by Ears	1								
	Amplitude, Time period and frequency of a vibration	1								
	Loudness and pitch , audible and inaudible sounds, Noise and music	1								
	Noise Pollution – Causes , harms and preventive measures	1								
	Exercise Activities & Unit Test	1								

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September	Formative Assessment - 02	-								
September and October	Summative Assessment 01	-								
Unit- 10.Combustion and Flame(Chemistry)										
November 08	Introduction , What is Combustion?	1								
	Combustible and non combustible substances , Ignition Temperature	1								
	How do we control fire ?	1								
	Types of combustion, Flame	1								
	Flame – Meaning and its structure	1								
	What is Fuel? , and Fuel efficiency	1								
	Harmful products released by the burning of fuels and its effects.	1								
	Exercise Activities & Unit Test	1								
Unit- 11.Cell -Structure And Functions(Biology)										
November 03	Introduction , Discovery Of the Cell	1								
	The Cell and Variety	1								
	Cell Number ,Size and Shapes	1								

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November 06	Cell Structure and Function , Parts of the Cell	1								
	Cell Membrane	1								
	Cytoplasm	1								
	Nucleus	1								
	Comparision of Plant and Animal Cells	1								
	Exercise Activities & Unit Test	1								
Unit- 14.Chemical Effects Of Electric Current(Physics)										
November 06	Introduction , Good and Poor conductors of electricity	1								
	Do liquids conducts electricity?	2								
	Chemical Effects of Electric Current	1								
	Electroplating	1								
	Exercise Activities & Unit Test	1								
Unit- 12.Reproduction In Animals (Biology)										
December 04	Introduction , Importance of Reproduction	1								
	Modes of Reproduction	1								
	Structure and functions of Male reproductive organs	1								
	Structure and functions of female reproductive organs	1								

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December 05	Fertilisation	1								
	Development of Embryo	1								
	Viviparous and Oviparous Animals, Young Ones to Adults	1								
	Asexual Reproduction	1								
	Exercise Activities & Unit Test	1								
Unit-15.Some Natural Phenomena(Physics)										
December 08	Introduction , Lightning	1								
	Charging by rubbing,	1								
	Types of charges and their Interaction	1								
	Lightning Safety methods , The story of Lightning	1								
	Lightning Safety methods	1								
	The story of Lightning	1								
	Earthquake and Preventive measures to be followed to protect against Earthquake	1								
	Exercise Activities & Unit Test	1								
Decem ber	Formative Assessment 03									

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Unit-13 Reaching the age of Adolescence(Biology)										
January 09	Introduction, Adolescence and Puberty	1								
	Changes in puberty	2								
	Secondary Sexual characters , Role of Hormones	1								
	Reproductive phase of life in Humans , Determination of the sex of a baby	1								
	Hormones other than sex hormones	1								
	Life cycle of insects and frogs	1								
	Reproductive health	1								
	Exercise Activities & Unit Test	1								
Unit-16.Light (Physics)										
January 06	Introduction, What makes things visible?	1								
	Laws of Reflection of Light	2								
	Regular and Diffused / Irregular reflection , Multiple Image Formations	1								
	Kaleidoscope , White light or Sun's Light , 7 Colours	1								
	Structure and Functions of Human Eye	1								

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January 02	Care of the Eyes, Braille System solution for Visually Impaired Persons	1								
	Exercise Activities & Unit Test	1								
Unit-17. Stars And The Solar System (Physics)										
January 05+ February 05	Introduction, Celestial objects and Astronomy	1								
	Moon	2								
	Stars	1								
	Constellations	1								
	Solar System: Sun And Planets	1								
	Mercury, Venus, Earth and Mars	1								
	Jupiter , Saturn, Uranus and Neptune	1								
	Other members of Solar system	1								
	Exercise Activities & Unit Test	1								
Unit-18. Pollution of Air and Water(Biology)										
February 04	Introduction, Air Pollution	1								
	How air get pollutes?	1								
	Case Study: Taj Mahal And Green House	1								
	Preventive measures of Air Pollution	1								

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February 04	How do Water gets polluted?	2								
	Preventive measures of water pollution.	1								
	Exercise Activities & Unit Test	1								
February	Formative Assessment 04									
March	Revision <ul style="list-style-type: none"> • Recall - difficult and important concepts • List out - important concepts of all the units • Preparatory tests/exams • Preparation of documentation of Remedial teaching • Preparation of Annual Exam Question Papers 									
March -April	Summative Assessment 02 And Consolidation of FA's and SA ,Announcement of Annual Academic Result									