

RD PUBLIC SCHOOL, BETUL

ANNUAL SYLLABUS

CLASS - X - PHYSICS

MONTH	CHAPTER	TOPIC TO BE COVERED	CLASS ACTIVITY & TEACHING METHOD	TEACHING AID
MARCH	SOURCES OF ENERGY	Sources of energy	Explanatory	black board
		conventional sources of energy	Explanatory	Audio visual module+BB
		thermal & hydro power plants	Explanatory	Audio visual module+BB
		the technology for using conventional	Explanatory	Audio visual module+BB
		the technology for using conventional	Explanatory	Audio visual module+BB
		Non conventional sources of energy	Explanatory	Audio visual module+BB
		geothermal energy	Explanatory	Audio visual module+BB
		nuclear energy	Explanatory	Audio visual module+BB
		Environmental consequences	Explanatory	Audio visual module+BB
		how long will an energy source last us	Explanatory	Audio visual module+BB
APRIL	Magnetic effect of electric current	Text book que/ans discussion	Explanatory	
		magnet & its properties	Explanatory	black board
		magnetic field lines & its properties	Explanatory	black board
		magnetic field lines & its properties	explanation + lab activity	lab visit
		magnetic field due to a current carrying conductor	explanation + lab activity	lab visit
		magnetic field due to a current carrying straight conductor	explanation + lab activity	lab visit
		magnetic field due to a circular loop	explanation + lab activity	lab visit
	MAGNETIC EFFECT OF ELECTRIC	SOURCES OF ENERGY	GROUP DISCUSSION	
		SOURCES OF ENERGY	GROUP DISCUSSION	
		MAGNETIC EFFECT OF ELECTRIC		

JUNE	PERIODIC -1-REVISION	MAGNETIC EFFECT OF ELECTRIC CURRENT	GROUP DISCUSSION	
Magnetic effect of electric current	magnetic field due to a solenoid	explanation + lab activity	lab visit	
	magnetic field due to a solenoid	explanation + lab activity	lab visit	
	electromagnet	explanation + lab activity	lab visit	
	force experience by current carrying conductor	explanation	audio/visual module	
	force experience by current carrying conductor & Fleming's left hand rule	explanation + lab activity	lab visit	
	electric motor	explanation	audio/visual module	
	electromagnetic induction	explanation + lab activity	lab visit	
	electromagnetic induction	explanation + lab activity	lab visit	
	electric generator	explanation	audio/visual module	
	Domestic electric circuits	explanation	audio/visual module	
	ncert exercise questions	discussion of Q/A		
	ncert exercise questions	discussion of Q/A		
JULY	Electric charges & its types	explanation	audio/visual module	
	theory of electrification	explanation	audio/visual module	
	Properties of electric charges	explanation	audio/visual module	
	electric field, electric potential & potential difference	explanation	audio/visual module	
	electric circuits & its types	explanation + lab activity	lab visit	
	ohm's law	explanation + lab activity	lab visit	
	numericals based on ohm's law	discussion	black board	
	numericals based on ohm's law	discussion	black board	
	resistance & resistivity	explanation	black board	
	numericals based resistivity	discussion	black board	
	numericals based resistivity	discussion	black board	
	series combination	explanation	black board	
AUGUST	series combination	explanation + lab activity	lab visit	
	series combination numericals	discussion	black board	
	series combination numericals	discussion	black board	

SEPTEMBER	ELECTRICITY	Parallel combination	explanation	black board
		Parallel combination	explanation + lab activity	lab visit
		Parallel combination	Discussion	black board
	PERIODIC -2-REVISION	SOURCES OF ENERGY	oral+written	
		SOURCES OF ENERGY	oral+written	
		MAGNETIC EFFECT OF ELECTRIC CURRENT	oral+written	
	PERIODIC -2-REVISION	MAGNETIC EFFECT OF ELECTRIC CURRENT	oral+written	
		ELECTRICITY	oral+written	
		ELECTRICITY	oral+written	
	PERIODIC TEST -2			
OCTOBER	ELECTRICITY	heating effect of electric current	explanation	audio/visual module
		heating effect of electric current	explanation + lab activity	lab visit
		applications of heating effect of electric current	explanation with RLA	audio/visual module
		electric power	explanation	audio/visual module
		electric power	explanation with RLA	black board
		ncert exercise questions	discussion	black board
		ncert exercise questions	discussion	black board
		Light & its characteristics	explanatory	black board
	LIGHT	reflection of light & laws of reflection	explanatory	black board
		laws of reflection & characteristics of image formed by plane mirror	explanation + lab activity	lab visit

NOVEMBER	LIGHT	Spherical mirror& terms related to it	explanatory	black board
		rules of image formed by spherical mirror	explanatory	black board
		mirror formula & its numericals	explanation	black board
		image formation by spherical mirror	explanation + lab activity	lab visit to find f of concave mirror & other position of object
		numericals based on mirror formula	discussion	black board
		numericals based on mirror formula	discussion	black board
	REVISION PERIODIC TEST 3			
		Refraction of light & its laws	explanatory	black board
		refraction through glass slab	to study laws of refraction through glass slab & lateral displacement	lab visit
DECEMBER	OPTICS	refractive index & its numericals	discussion	black board
		refractive index & its numericals	discussion	black board
		spherical lenses & its types& terms related to it	explanatory	black board
		rules of image formation	explanatory	black board
		lens formula & numericals based on it	discussion	black board

DECEMBER	HUMAN EYE & COLOURFUL WORLD	image formation by convex lense	explanation + lab activity	lab visit
		power of lense & its numerical	discussion	black board
		Human eye & its working	explanatory	audio/visual module
		Human eye & its working	explanatory	audio/visual module
		defects of vision	explanatory	audio/visual module
		numericals based on defects of vision	discussion	black board
		atmospheric refraction with RLA	explanatory	audio/visual module
		scattering of light with RLA	explanatory	audio/visual module
		Dispersion of light through prism	explanation +lab activity	lab visit
		recombination of light through prism	explanatory	audio/visual module
		NCERT EXERCISE Q/A	Discussion	black board
JANUARY	REVISION	SOURCES OF ENERGY	GROUP DISCUSSION+sample paper questions	black board
	REVISION	MAGNETIC EFFECT OF ELECTRIC CURRENT	GROUP DISCUSSION+sample paper questions	black board+SMART CLASS
	REVISION	ELECTRICITY	GROUP DISCUSSION+sample paper questions	black board+SMART CLASS
	REVISION	LIGHT	GROUP DISCUSSION+sample paper questions	black board+SMART CLASS
FEBRUARY	REVISION	HUMAN EYE & COLOURFUL WORLD	GROUP DISCUSSION+sample paper questions	black board+SMART CLASS
	REVISION	OVERALL REVISION	GROUP DISCUSSION+sample paper questions	black board+SMART CLASS

