

RD PUBLIC SCHOOL, BETUL

ANNUAL SYLLABUS

CLASS - X - PHYSICS

MONTH	CHAPTER	TOPIC TO BE COVERED	CLASSS ACTIVITY &TEACHING METHOD	TEACHINGB AID
	SOURCES OF ENERGY	Sourecs 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	
Enviornmental consequences		Explanatory	Audio visual module+BB	
how long will an energy source last us		Explanatory	Audio visual module+BB	
Text book que/ans discussion		Explanatory		
APRIL	Magnetic effect of electric current	magnet & its properties	Explanatory	black board
		magnetic field lines & its properties	Explanatory	black board
magnetic field lines & its properties		explanation + lab activity	lab visit	
etic field due to a current carrying cond		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	
SOURCES OF ENERGY		GROUP DISCUSSION		
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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 experienceby current carrying conductor	explanation	audio/visual module		
		force experienceby current carrying conductor& Fleming's left hand rule	explanation + lab activity	lab visit		
		elctric motor	explanation	audio/visual module		
		elctromagnetic induction	explanation + lab activity	lab visit		
		elctromagnetic induction	explanation + lab activity	lab visit		
		electric generator	explanation	audio/visual module		
		Domestic electrictic 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
				theoryof 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		
	series combination	explanation + lab activity		lab visit		
	series combination numericals	discussion		black board		
AUGUST	series combinationnumericals	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	
		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
		ncert exercise questions		discussion	black board
		Light & its characteristics		explanatory	black board
		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	
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		image formation by convex lense	explanation + lab activity	lab visit
		power of lense & its numerical	discussion	black board
	HUMAN EYE & COLOURFUL WORLD	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	
JANUARY				
		recombination of light through prism	explanatory	audio/visual module
		NCERT EXERCISE Q/A	Discussion	black board
	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
FEBRUARY	REVISION	ELECTRICITY	GROUP DISCUSSION+sample paper questions	black board+SMART CLASS
	REVISION	LIGHT	GROUP DISCUSSION+sample paper questions	black board+SMART CLASS
	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

