

SUMMER FIELDS SCHOOL, DLF CITY, PHASE-I, GURGAON

SESSION -2017-18

SYLLABUS DISTRIBUTION

Type of Assessment :PERIODIC TEST 1 (JULY – AUGUST)CLASS : XSUBJECT :PHYSICS

PRESCRIBED TEXT BOOKS:NCERT

LESSON / TOPICS COVERED	TEACHING AIDS USED	ASSOCIATED ACTIVITIES	VALUE(S) INHERENT IN THE CHAPTERS	LEARNING OUTCOME
<ul style="list-style-type: none"> Electricity Magnetic Effects of Current (till EMI) 	<ul style="list-style-type: none"> Smart Board NCERT Reference books Various circuit components like battery, resistors . Solenoid Horse shoe magnet Bar magnet 	<ul style="list-style-type: none"> To Verify Ohm’s law To verify resistance in series To verify resistance in parallel Subject Enrichment Activity To assemble the given components for the design of an electrical circuit involving combination of resistors. 	<ul style="list-style-type: none"> Concern to save electrical energy Systematic approach. 	<ul style="list-style-type: none"> Identifying symbols of various components and drawing simple circuit diagrams showing correct position of instruments. Understanding electrical energy conversion into heat and light. Understanding and defining various terms like potential difference, current resistance and their units. Solving numericals involving circuit diagrams in series and parallel.

Type of Assessment PERIODIC TEST-2 (SEPTEMBER)CLASS : XSUBJECT :PHYSICSPRESCRIBED TEXT BOOKS:NCERT

LESSON / TOPICS COVERED	TEACHING AIDS USED	ASSOCIATED ACTIVITIES	VALUE(S) INHERENT IN THE CHAPTERS	LEARNING OUTCOME
<ul style="list-style-type: none"> Magnetic Effects of Current (Remaining Chapter) Sources of Energy Chapters of Periodic Test - 1 	<ul style="list-style-type: none"> Smart Board NCERT Reference books 	<ul style="list-style-type: none"> To plot the directions of magnetic field lines of a bar magnet. To observe the momentary deflection in a galvanometer, connected to a coil, due to the relative motion between the magnet and the coil. 	<ul style="list-style-type: none"> Safe handling of electrical equipment. Concern over need for energy conservation. Appreciate and adopt new techniques. 	<ul style="list-style-type: none"> Understanding relation between electricity and magnetism Understanding force experienced by current carrying wire when placed in magnetic field and finding the direction of force. Understanding the principle of electric motor. Identifying methods of conserving of energy.

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Type of Assessment: PERIODIC TEST – 3 (DECEMBER)

CLASS X

SUBJECT : PHYSICS

PRESCRIBED TEXT BOOKS: NCERT

LESSON / TOPICS COVERED	TEACHING AIDS USED	ASSOCIATED ACTIVITIES	VALUE(S) INHERENT IN THE CHAPTERS	LEARNING OUTCOME
<ul style="list-style-type: none"> • Light • Human Eye (till defects) • Chapters of Periodic Tests 1&2 	<ul style="list-style-type: none"> • Smart Board • NCERT • Reference books • Spherical mirrors and lenses 	<ul style="list-style-type: none"> • To find focal lengths of concave mirror & convex lens. • To trace the path of light through glass slab • To trace the path of light through glass prism. • Subject Enrichment Activity: To establish the relation between refractive index of a medium and the apparent depth of an object in it. 	<ul style="list-style-type: none"> • Scientific Attitude • Aesthetic sense • Appreciation of natural phenomena related to light. 	<ul style="list-style-type: none"> • Understanding the laws of reflection and refraction and drawing ray diagrams related to mirrors and lens. • Understanding the lens and mirror formula and sign conventions in order to solve numericals. • Understanding the defects of vision and methods to correct them.

Type of Assessment :PRE-BOARD (JANUARY)

CLASS : X

SUBJECT :PHYSICS

PRESCRIBED TEXT BOOKS:NCERT

LESSON / TOPICS COVERED	TEACHING AIDS USED	ASSOCIATED ACTIVITY	VALUE(S) INHERENT IN THE CHAPTERS	LEARNING OUTCOME
Complete Syllabus	<ul style="list-style-type: none"> • Smart Board • NCERT • Reference books. • Sample Papers 			

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