

KENDRIYA VIDYALAYA GUMLA

ACTIVITIES CONDUCTED IN THE LABORATORY UNDER PHYSICS AND CHEMISTRY

ACTIVITIES CONDUCTED IN THE LABORATORY UNDER PHYSICS				
S.No.	No. of Student	Class	Name of Activity	Objective
01.	18	XII	To assemble the components of a given electric circuit	*Identify the components . *Understand Circuit diagram.
02.	18	XII	To assemble a household circuit comprising three bulbs , three switches, a fuse and power source	*To Assemble the circuit. *To verify and test the circuit.
03	18	XII	To study the variation in potential drop with length of a wire for a steady current.	*Understand Circuit analysis. *Apply ohms law *Understand relationship between voltage, current and resistance.
04	18	XII	To draw the diagram of a given open circuit comprising at least a battery, resistor/rheostat, key, ammeter and voltmeter. Mark the components that are not connected in proper order and correct the circuit and also the circuit diagram.	*Learn to connect components in series and parallel. *Develop Hands – on – skill. *Visualize circuit functionality.
05	18	XII	To measure resistance, voltage (AC/DC), current (AC) and check continuity of a given circuit using multi-meter.	*Understand multi-meter usage. *Measure voltage, measure current. *Learn to check for continuity in circuit.
06	18	XII	To obtain a lens combination with the specified focal length by using two lenses from the given set of lenses.	*Understand optical system. *Understand lens properties. *Understand lens combination.
07	34+ 40	X(A+B)	To know the kind of mirror and the image formation	* learn the concept of types of mirror *Understand size of image
08	34+40	X(A+B)	To know behaviour of light in two different medium	*To know the phenomenon of refraction * Concept of rarer and denser medium
09	34+40	X(A+B)	Refraction of light through the prism	*know the structure of prism

				* Understand speed of light in rarer and denser medium * Understand behaviour of light in prism.
10	34+40	X(A+B)	Dispersion of white light by a glass prism	*Understand that how light disperse into seven different colour. *To know that white light is mixture of seven colours.