Grade XII									
Physics									
	Total Periods= 1 Period= 45min								
S.No	Topics	I	Main Points	References	Periods				
1	Understanding of the importance of system of measurements with standard units of accurate measurement in the house hold.	another. Study of cor devices, spring balan measurements in pro	ystem, conversion to one to estruction and use of weighing ce, arm balance. Use of accurate ducing standards uniform products Establishment and enforcement of and measures.		4				
2	Understanding of purpose of simple machines and their constructions. Analysis of efficiency of simple machines and the effect of frictions	Use of lever, inclined	d plane, wheel and axle, screw and pulley.		3				
3	Understanding of certain characteristics of materials in relation to the house hold.	viscosity and su	Ils such as density, specific gravity, urface tension. Application of nimede's principle.		4				
4	Temperature, effect of heat and methods of heat transmission.	thermocouples. D Operation of thermo transfer and their ap heat transfer. Effec	peration of thermometers, of ifference in thermometer scales. ostats. Review of methods of heat plications. Effects of insulation on ets of heat causing expansion and heat units, calories and B-T-U.		5				

5	Basic principle of	Nature of electricity and of an electric current. Theories		
	electricity and	of magnetism and insulators. Meaning of amperes,		
	magnetism.	watts, ohms, volts. Ohm's law. Generation of electric		
		current. Alternating and direct current. Use of		
		transformers. Value of fuses or circuit breakers. Use of		
		electricity in the home. Principle of dynamo and motor.		
		Measurement of electricity in the home; amount of		-
		electricity requires to operate household appliances.		5
6	Light, color, sound	Properties of light waves. Laws of reflection and		
		refraction. Different types of electric lights.		5
		Measurement of illumination. Different lenses and their		
		uses. The spectrum, transmission of sound, providing		
		good quality light in the home – Natural and artificial.		
		Amount of light required for certain kind of tasks.		

BOOKS RECOMMENDED

- 1. Household Physics By Madalyn Avery ,The MacMillan Co. New York.
- 2. A Brief Course in Physics By Lester T. Earls For Home Economics Students. Prentice Hall Inc, New York

Practical

1.	To find out the density of solid cylinder by graduated cylinder	02	
2.	To find out the density of solid sphere by graduated cylinder		
3.	To find out the specific gravity of a solid cylinder heavier than water but		
	insoluble in it by Archimede's Principle	02	
4.	To find out the specific gravity of a solid sphere heavier than water but		
	insoluble in it by Archimede's Principle	02	
5.	To find out the specific gravity of glycerin by R.D bottle	02	
6.	To find out the specific gravity of glycerin by R.D bottle	02	
7.	To measure the length and diameter of a solid cylinder with the help of a		
	Vernier Calliper and calculate its volume	02	
8.	To measure the diameter of a solid sphere with the help of a Vernier		
	Calliper and calculate its volume	02	
9.	To determine the diameter of a given wire by using a screw gauge and		
	calculate it's area of cross section	02	
10.	To determine the volume of a small sphere with the help of a micrometer		
	screw gauge	02	
11.	To study the relationship between current and voltage	02	
	To plot magnetic lines of force of a bar magnet with its north pole		
12.	pointing towards the geographical south.	02`	
13.	To study the laws of reflection of light.	02	
14.	To study the laws of refraction of light	02	