IMMACULATE CONCEPTION HIGH SCHOOL PHYSICS TERM 3 PLAN ONLINE / DISTANCE LEARNING						
GRADE:	10					
TERM:	3					
WEEK:	DATE	TOPICS	OBJECTIVES			
1	April 22-24	Power	Power and Efficiency 4.1 define power and apply formula to solve problems 4.2 define the term efficiency 4.3 calculate efficiency in different situations Review Plan and Design Lab#1			
2	April 27 – May 1	Hydrostatics - Pressure	Energy & Power Quiz <u>Hydrostatics</u> 5.1 Define Pressure. Use examples (foot of an elephant vs heel of a woman's shoe). $P = \frac{F}{A}$ 5.2 Apply:5.3 Relate the pressure at a point in a fluid to its depth and the density. $\Delta p = \frac{\rho g \Delta h}{A}$ 5.4 Apply:			

Physics

			 5.5 Define Archimedes Principle. 5.6 Describe Upthrust. 5.7 Find the Upthrust on a submerged object: Upthrust = Actual Weight – Apparent weight
3	May. 4– 8	Hydrostatics - Archimedes' Principle	Hydrostatics: Coursework Archimedes' Principle 5.8 state Archimedes' Principle 5.9 apply Archimedes' Principle to detect whether a body will sink or float in a given fluid. Hydrostatics Quiz Hydrostatics Quiz
4	May. 11 – 15	Kinetic Theory - Nature of heat - macroscopic properties and phenomena (temperature; phases of matter; expansion; gas laws)	Nature of Heat6.1 differentiate between the caloric and kinetic theories of heat6.2 discuss Joule's experiment on the conservation of energy.Phases of Matter6.3 Distinguish among solids, liquids and gases6.4 use kinetic theory to explain the different macroscopic properties of solids, liquids and gasesGas Laws6.5 relate pressure/volume against temperature graphs to the establishment of the Kelvin temperature scale6.6 explain gas pressure in terms of molecular motion

		Kinetic Theory - gas laws		
5	May. 18– 22	Kinetic Theory - gas laws	<u>Gas Laws</u> 6.7 Apply the gas laws: Boyle's Law; Charles' Law; Pressure Law; General Gas Law Gas Laws worksheet Lab: Plan and Design (Investigative Report Proposal) Selection of question.	
6	May 25- 29	Kinetic Theory - gas laws THERMAL MEASUREMENTS: i. Heat Capacity ii. Specific Heat Capacity	COURSEWORK- GAS LAWS 6.8 Define Heat Capacity, C , and state its S.I. units. $C = \frac{E_H}{\Delta T}$ 6.9 Apply: 6.10 Define Specific Heat Capacity, c , and state its S. I. units. $c = \frac{E_H}{m\Delta T}$ 6.11 Apply: 6.11	
7	June 1-5	THERMAL MEASUREMENTS	6.12 Show the relationship between c and C : $C = mc$ 6.13 Apply the relationship with examples: $E_H = mc \Delta T$ or $E_H = mc \Delta \theta$ Worksheet- Thermal Measurements	

8	June 8 – 11	i.	THERMAL MEASUREMENTS: Heat Capacity	6.14 Explain that temperature remains constant during a phase change. Use the Cooling Curve experiment (with water or candle wax).		
		ii.	Specific Heat Capacity	6.15 6.16	Explain the term "Latent heat" Distinguish between Latent Heat Capacity, <i>L</i> , and Specific Latent Heat Capacity, <i>I</i> .	
				6.17 6.18	Distinguish between I_v and I_f . Apply the relationship: $E_H = ml$	