Physics Study Guide

Name: Date: Block:

Create a study guide that includes the major vocabulary and concepts you learn in this unit. Include **definitions**, **examples**, and/or **relevant diagrams**. Your study guide can be a rewriting of your notes, a series of questions/answers, a brochure, a mind map showing the connections between concepts, or any other way you can think of. You can create your study guide on a regular sized piece of paper, a large piece of poster paper, or cue cards

Physics I: Energy

Vocabulary	Concepts
Mechanical Kinetic Energy	Types of kinetic and potential energy
Radiant/Solar/Light Energy	Energy transformation
Thermal Energy (heat)	
Sound Energy	
Electrical Kinetic Energy	
Elastic Potential Energy	
Chemical Potential Energy	
Gravitational Potential Energy	
Nuclear Energy	
Electrical Potential Energy	
Magnetic Potential Energy	

Physics II: Static Electricity

Vocabulary	Concepts
Protons	Charged vs uncharged materials
Electrons	Law of electric charge

Physics III: Circuits must be Complete for Electrons to Flow

Vocabulary	Concepts
Anode	How does an electrochemical cell work?
Cathode	Insulator vs. conductor
Electrolyte	Short circuits
Voltage (electrical potential difference)	
Current	
Resistance	
Source (battery/electrochemical cell)	
Resistor/Load	
Switch	
Ammeter	
Voltmeter	

Physics IV: Circuit Diagrams & Ohm's Law

Vocabulary	Concepts
	Drawing circuit diagrams (with symbols) Relationship between voltage, current, and resistance Ohm's Law calculations

Physics V: Series and Parallel Circuits

Vocabulary	Concepts
	The definition of, how to draw circuit diagrams
Junction point	for, what happens to voltage/current in, and real-life examples of:
	Series circuits
	Parallel circuits

Physics VI: Power; Sustainability; Generating Electrical Energy

Vocabulary	Concepts
Smart meter	Calculating power
Phantom load	What are the EnerGuide and
Turbine	ENERGYSTAR® labels
Shaft	How does electrical energy get generated?
Generator	Renewable vs non-renewable energy
	Wind turbines, solar panels, geothermal
	sources