Name:	
Period:	

IPC Physics Final Review Vocab

Velocity and Acceleration

1. Variable	A. One time an experiment is run.	1. Linear	A. The variable on the vertical axis (y-axis).
2. Experiment	B. A setup used to gather data and knowledge.	2. Independent variable	B. The slope of a speed vs. time graph.
3. Data Table	C. A list of information from an experiment.	3. Dependent	C. The variable on the horizontal axis (x-axis).
4. Trial	D. A part of an experiment that can be	variable 4. <i>Slope</i>	D. A type of graph that looks like a straight line.
4. Irial	changed or manipulated.	4. Stope	
5. Procedure	E. How an experiment is actually	5. Speed	E. The measure of the steepness of a line.
3. Procedure	conducted.	6. Acceleration	F. The slope of a position vs. time graph.

Newton's Laws

 Inertia Friction Gravity Net force Force 	 A. An action that can causes motion. B. Force pulling all object toward each other. C. Any force that resists motion. Causes heat. D. Total of all of the forces on an object. E. Ability of an object to resist change of motion. 	 Weight Equilibrium Mass Heat g 	 A. When all forces on an object are balanced. B. The force of gravity on an object. C. The acceleration of gravity. D. The a product of friction. E. The measure of the matter in an object.
Newton's First Law Momentum Newton's Second Law Newton's Third Law Law of Conservation of Momentum	 A. For every action there is an equal an opposite reaction. B. Momentum does not change in a closed system OR m_Lv_L = m_Rv_R C. Measure of the product of an object's mass and velocity; has to be moving. D. Objects at rest stay at rest and objects in motion stay at motion unless acted on by a net force. E. Force equals mass times acceleration. 		

Work and Energy

1. Energy	A.	Uses energy and can create energy.	1. Thermal	A.	Energy of the atom being split or fused.
2. Power	В.	Energy of motion; dependent on mass and	2. Nuclear	B.	Energy cannot be destroyed or created,
2. Power		velocity.	3. Radiant		just transformed.
3. Work	C.	Energy of position; dependent on height,	4. Mechanical	C.	Energy of moving electrons.
		mass, and gravity.	5. Law of Con-	D.	Heat energy. Also caused by friction.
4. Kinetic Energy	D.	The rate of doing work; how fast you do	servation of	E.	Light energy—electromagnetic radiation.
Litergy	15575000	work.	Energy	F.	Energy (kinetic or potential) stored in
5. Potential	E.	Has the ability to create forces; stored work.	6. Chemical		object and can do work.
Energy	2000		7. Electrical	G.	Energy of molecular bonds.

Magnetism and Heat

1. Magnet A. Anything that attracts or repels another mag-1. Conduction A. Heat transfer through electromagnetic net or magnetic material. 2. Thermal 2. Electro B. Will allow heat or electricity to move. B. The area in which magnets will feel magnetic Equilibrium magnet force. More arrows show a stronger one. C. Thermal (heat) transfer by the contact 3. Radiation 3. Magnetic (touching) of two objects. A magnet made from electricity going field D. Transfers heat by moving currents in gases 4. Convection through wrapped wires. and liquids. 4. Generator D. Forcing energy into wires by moving magnets. 5. Thermo E. When two objects are at the same temperadynamics 5. Motor E. Uses energy to cause electromagnets to turn and do work. 6. Insulator F. Will resist heat and electricity. 6. Magnetic F. Uses work to spin magnets and make energy. Induction G. The study of how heat moves. 7. Conductor

Electricity

1. Electricity	A. Slows down the flow of electricity.	1. Fuse	A. A circuit with a break in it; no electricity will flow.
2. Current	B. Pushes electricity through a circuit.	2. Circuit breaker	B. Has independent paths for the electricity.
3. Electrically	Electricity can flow through this. D. A circuit that has a wire across a device	3. Parallel Circuit	C. Has only one path for the electricity.
neutral	which causes it to go off.	4. Series Circuit	D. A device that breaks to protect against excessive current. Must be replaced.
4. Resistance	E. The flow of electricity through a circuit.	5. Open Circuit	E. Protects against high current, but can be
5. Voltage	F. Electrons flowing in circuits.	3. Open Circuit	reset.
6. Short Circuit	G. An object that has equal amounts of positive and negative charges.	6. Closed Circuit	F. A circuit that has no breaks in it; electricity can flow in it.