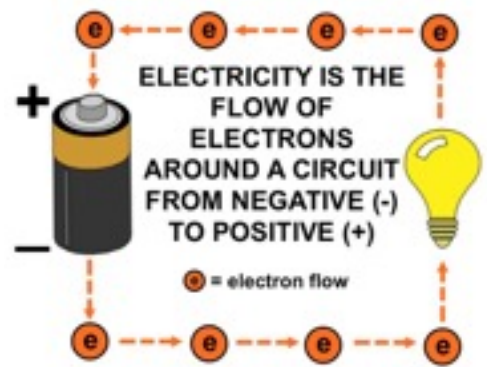


Electricity Research Guide

A. Electricity – _____

B. Electricity flows through conductors. Insulators are used to make this safe. Why are insulators needed? Think about it and/or do research online to figure out.



C. Super Conductor (interesting! read the info at absolute zero) – _____

D. Voltage (V) – _____

Voltage is measured in _____

E. Amperage (or Current) – _____

Average is measured in _____

F. 2 Kinds Of Current

Alternating Current (AC) – _____

power from _____

Direct Current (DC) – _____

power from _____

G. Resistance (R) – _____

Resistance is measured in – _____

H. Circuit – _____

Series Circuit – _____

Parallel Circuit – _____

Short Circuit – _____

I. Fuses and Circuit Breakers – _____

J. 5 Ways to make Electricity are 1. _____ 2. _____

3. _____ 4. _____ 5. _____

Simple Machines

A. Simple machines are machines/tools that _____

B. What is the difference of the effort force and the resistance force? _____

C. Mechanical Advantage _____

D. List the 8 kinds of simple machines and a fact or example of your choice about each:

1.

2.

3.

4.

5.

6.

7.

8.

Motion and Forces

A. Motion:

B. A force is a _____ or a _____ that _____

Force is measure in _____

C. List the 5 Forces that work without physical contact: _____

D. Velocity -

E. Laws of Motion

Newton's 1st Law	_____
Newton's 2nd Law	
Newton 3rd Law	

F. Inertia -