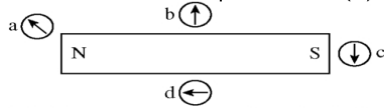


Physical Science Worksheet Electromagnetism

- Materials that allow the charges of an electric current to move freely through them are called
- According to Ohm's law, what is the resistance of a light if the voltage is 9.0 volts and the current is 0.30 amps?
- An electric current produces a(n)

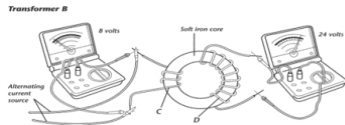
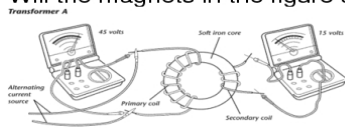


- Which compass needle orientation in the figure above might correctly describe the magnet's field at that point?
- Three resistors with values of 4.0 W, 6.0 W, and 10.0 W are connected in parallel. What is their equivalent resistance?

S	N
---	---

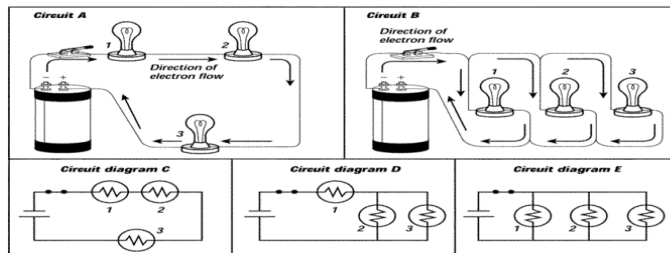
S	N
---	---

S	N
---	---
- Will the magnets in the figure above attract or repel each other?



- What type of transformer is transformer B?
- What type of transformer is transformer A?
- If the battery is a 9-volt battery and the resistance in the circuit is 18 ohms, how much current is flowing through the circuit?
- The buildup of charges on an object is called

Series and Parallel Circuits



- Will removing bulb 1 in circuit B cause bulb 3 to go out?
- Which circuit diagram represents circuit B?
- Which circuit—A or B—represents a series circuit?
- What will happen to bulb 1 in circuit A if the switch is opened?
- Which circuit—A or B—is a parallel circuit?
- What will happen to bulb 2 in circuit diagram D if bulb 1 burns out?
- An electric generator is the opposite of a(n)