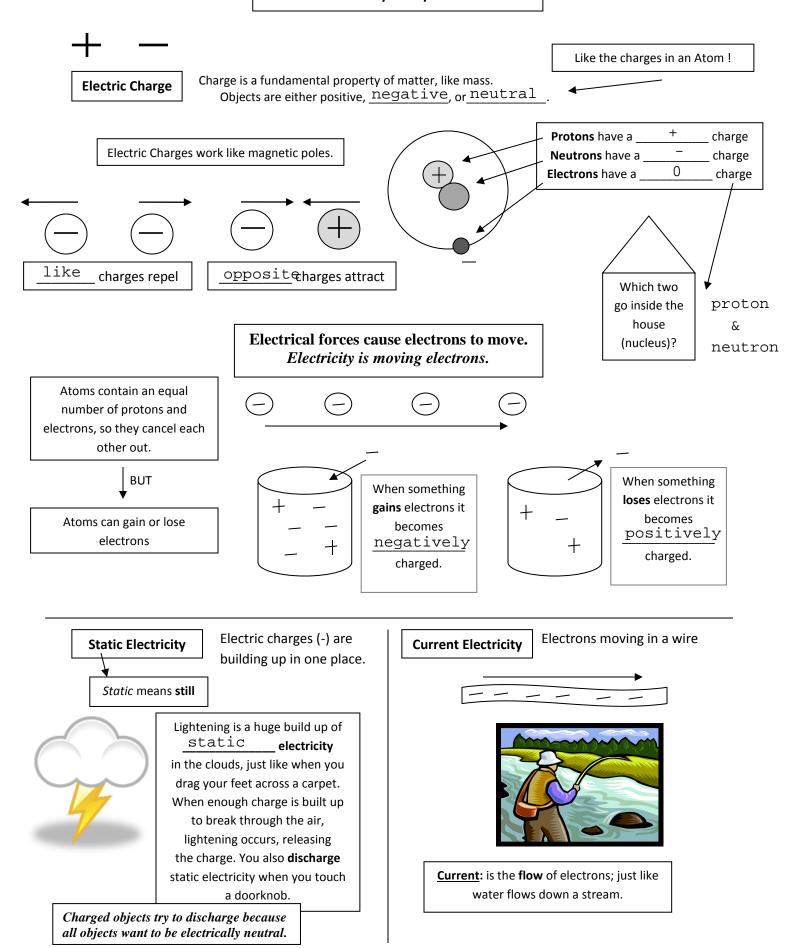
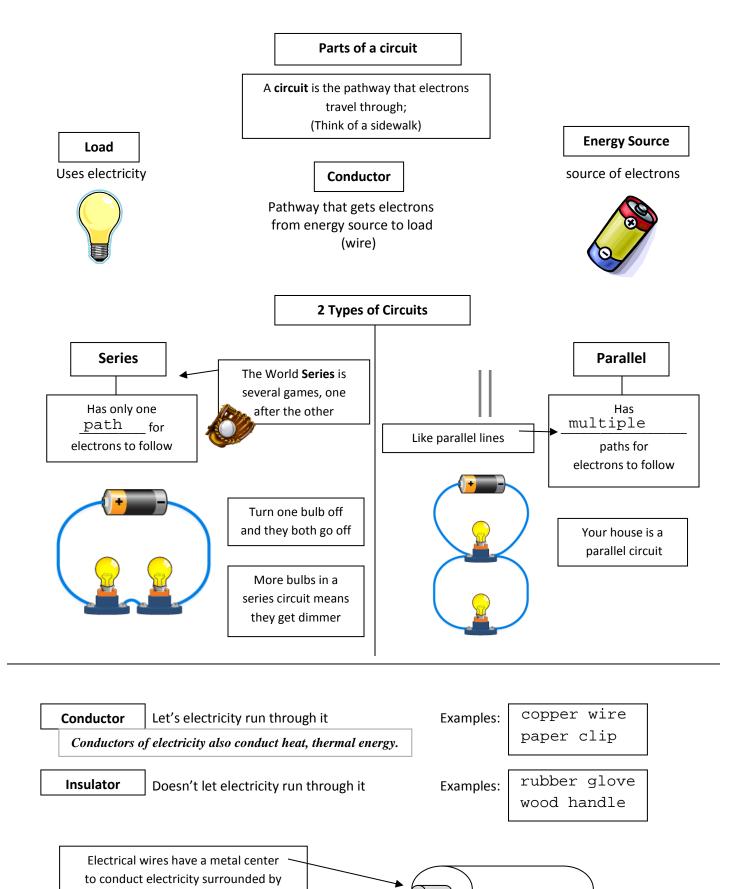
Electricity Study Guide





insulation for protection. -

Matching!

Draw a line to connect the term to the meaning.

- 1. Insulator C
- 2. Conductor F
- 3. Positive E
- 4. Negative A
- 5. Electricity D
- 6. Electric charge G
- 7. Static electricity B
- 8. Electrically neutral #

- A. The charge that attracts protons.
- B. A buildup of charge on an object.
- C. A material that resists the flow of electricity.
- D. movement of electrons from one place to another
- E. The charge that attracts electrons.
- F. A material that does not resist electricity.
- G. The pushes and pulls that electric charges exert on each other
- H. An object that has equal amounts of positive and negative charges.

Insulator? or Conductor?

C Silver

_____Wood

 $\frac{\bot}{I}$ Air Glass

C Copper

T Pure water

C Gold

I Styrofoam

C Aluminum

After you rub a balloon on your hair it might stick to a wall.

Why? Be specific.

Friction rubs off electrons which flow to your hair and leave the balloon positively charged. The balloon is an insulator so the charges stay where they are. When the balloon approaches the wall, it draws negative charge (electrons) to the surface. The wall is now "negative' and the balloon "positive" so they attract each other.

Series or **P**arallel circuit?

- S Only one path for the electricity.
- SDependent paths.
- $\underline{\mathbb{P}}$ How your house is wired.
- PIndependent current paths.
- PCan turn off one light without others turning off.
- S If you turn off one light, all the lights turn off.
- P More than one path for the electricity to flow.

List three things you MUST have for a complete circuit:

- 1) load
- 2) conductor (wires)
- 3) power source (battery or AC)

NOTES:

An atom that loses electrons becomes (negative/positive)? Circle one

An atom that gains electrons becomes (negative/positive)? Circle one