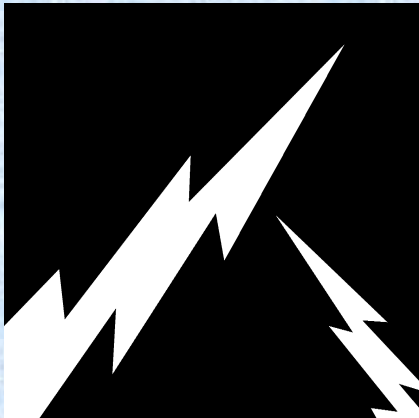




STAY SAFE WITH ELECTRICITY!

For: Mrs. Grom's Science Class!



By: Mrs. Camuto



HOW FUSES WORK!



This is a fuse that is in good working order.

Notice the wire in the center is complete!



This fuse has “blown”.

The fuse became overheated and the wire melted.

This “safety device” prevents fires!

CIRCUIT BREAKERS



- Circuit breakers are also used to prevent fires.
- They use an ELECTROMAGNET to **shut off** current whenever the current becomes too high.

GROUNDING A PLUG!



- Plugs are grounded to prevent people from being shocked.
- The arrow is pointing to the “ground” on the plug. NEVER remove this; it is for your protection.

This “ground” connects the circuit to the earth and sends the electric charges “harmlessly” into the ground,

WHAT IS A LIGHTNING ROD?



- These are found on top of buildings.
- They attract lightning because they are the highest points.
- The lightning is sent through the lightning rod and into the ground.
- They are used to prevent fires.

STAYING SAFE WITH ELECTRIC!



- Keep electric / electric wires away from water.
- Don't stick anything except a plug into an outlet.
- If your body is wet, avoid electricity.
- Don't overload a circuit.

NOT all electric shocks are equal in danger. It depends on the amount of current being used as to how deadly the shock will be.

STAYING SAFE WITH ELECTRIC CURRENT!



- NEVER touch any fallen wires.
- NEVER try and touch wires on power poles or the wires attached to your home.
- NEVER use broken or frayed wires.

STAYING SAFE IN A LIGHTNING STORM!



- Stay away from trees during a lightning storm.
- Avoid metal during a lightning storm.
- Get indoors during a lightning storm.
- If caught outdoors, get as low as possible to the ground. Avoid being out in the open.
- Stay out of the shower during a storm.
- Avoid the phone and other electronics like computers during a storm.