



Static Uses

This can be used to save your life.

Jacob's Ladder

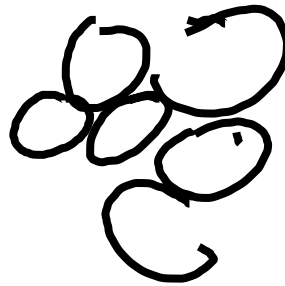
- As the warm air rises the spark also rises.
- Ark's across.

Conductors ~~versus Insulators~~

- Structure is cubic crystal structure
- Many free electrons
- Electrons flow easily
- Static charge resides on outer surface equally distributed.
- Can be used as a shield against harmful EM radiation.

~~Conductors versus~~ Insulators

- Electrons don't flow
- Complex molecular structure



Examples of each

- Conductors

- silver
- copper
- gold
- aluminum
- dirty water
- metals

- Insulators

- glass
- rubber
- Silk
- Fur
- pure water

Demos

- Metal vs insulator for airplane material.
- Smoke precipitator to remove pollutants from air.
- Protective cage from electricity.
- Testing waters purity

Handout Questions

- Electrostatics study sheet
- Should be able to answer 3-7, 9, 10, back side