

Insulators are materials in which electrons do not easily move (plastic, ~~glass~~ and wood). The electrons tend to stay closely attached to the nucleus. ~~ceramics~~ ~~glass~~

Conductors are materials in which electrons are free to move (Metals such as copper, aluminum, and gold). The electrons are loosely held in the outer regions (VALENCE) shell of the atom.

- Spark (blue) - ionized oxygen
- Lightning - plasma (4th state)

St. Elmo's Fire

ELECTROSCOPE

→ An instrument used to determine the type and size of a charge

1. Leaf Electroscope.

conductor
insulating rubber stopper
gold leaves

2. Pith Ball Electroscope.

insulating string
cork BALL
dum. foil OR (metal paint)

Dec 5-2:48 PM