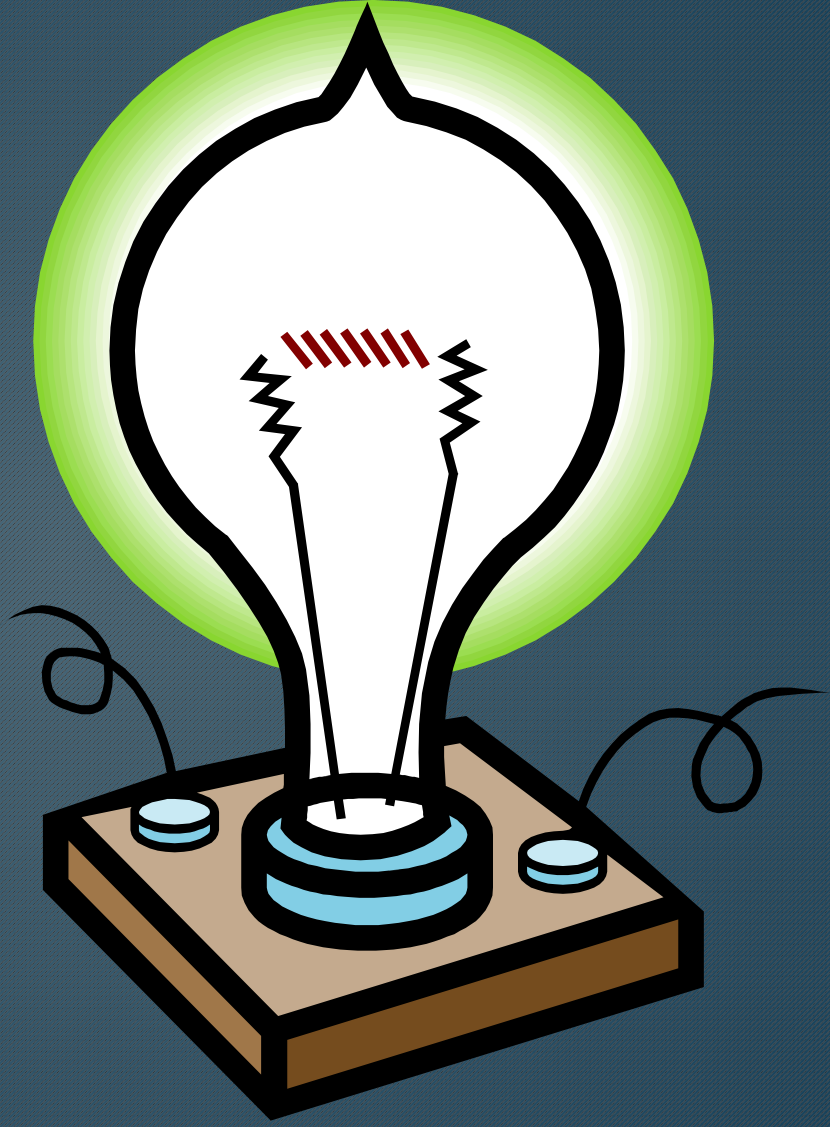


Science Chapter 4 Electricity and Magnetism



An object that
does NOT
conduct
electricity...

insulator

The measure of how
much a material
opposes the flow of
current...

resistance

A circuit that has
only one path that
electricity can
follow...

series circuit

The build up of
charges on an
object...

static electricity

An object that
allows electricity
to flow...

conductor

A temporary
magnet made up
of a wire wrapped
around a core...

electromagnet

A circuit that has
two or more
paths that
electricity can
follow...

parallel circuit

The space in
which an
electrical force
acts...
electric field

A student added another electrical circuit and all the lights became dimmer. What is most likely the cause of the dimmer lights?

The circuit is a series circuit.

If one burned out bulb
causes all of the lights
to fail in a circuit, what
might you conclude?

It is a series circuit.

Which of these
materials makes a
good insulator of
electricity?

Plastics
Salt water
Aluminum foil
silver

plastics

Which statement is TRUE about an electromagnet?

It is made by wrapping current carrying wire around an iron core.

- It is a permanent magnet.
- Increasing the number of coils decreases the strength.
- It cannot be turned off.
- It is made by wrapping current carrying wire around an

Which is a characteristic of most electrical conductors?

- They can be cut easily.
- Positive charges move easily through them.
- Negative charges move easily through them.
- They are soft and flexible.

Negative charges move easily through them.

What is a property of
matter that causes
objects to attract or
repel each other?

electric charge