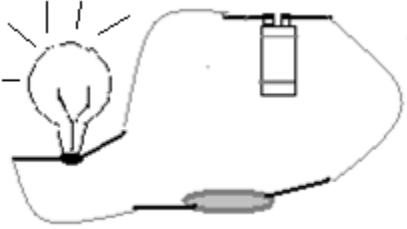
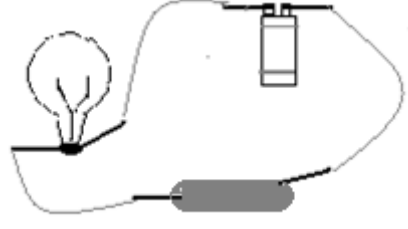
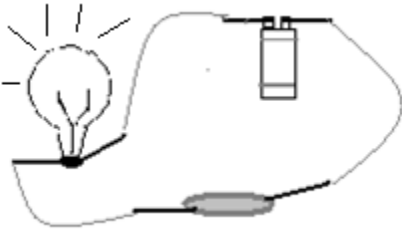


List electrical conductors and insulators.

CONDUCTORS	INSULATORS
	

List electrical conductors and insulators.

CONDUCTORS



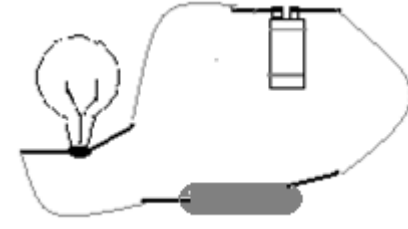
These objects allow electrons to move through them.

An electric current flows through the object.

WIRES
METAL
WIRE

*Concept:
Objects that conduct
heat also conduct
electricity.*

INSULATORS



These objects do not allow electrons to flow.

The electrical charge stays on the surface of the object.

CLOTH
WOOD
STYROFOAM

To test different materials for conductivity, modify the same experiment in LE-8. Get a third aluminum strip. The end of one strip will touch the battery and the other end will touch the object being tested. One end of the second strip will touch the other end of the object being tested and the base of the light bulb. One end of the third strip will touch the base of the light bulb and the opposite end of the battery.

Here is an easier way to conduct the experiment. Instead of using strips of aluminum, use electrical wire and alligator clips. They can be purchased at a local electronics store. It is easier if the alligator clips are already attached to the wire, or you can do attach the clips and wire yourself. You will need three pairs of alligator clips (six clips, each pair connected by one foot of wire.) A 9 volt battery will be easier to use.

INFORMATION PIECES

These objects allow electrons to move through them.

LE-9

These objects do not allow electrons to flow.

LE-9

The electrical charge stays on
the surface of the object.

LE-9

An electric current flows
through the object.

LE-9

WIRES

LE-9

METAL

LE-9

WATER

LE-9

CLOTH

LE-9

WOOD

LE-9

STYROFOAM

LE-9

To Make Your MatchCard more durable:

- 1. Put the student MatchCard and instructor MatchCard back to back in a clear plastic page protector.*
- 2. Laminate the information pieces. Or you can make them sturdier by covering the paper with transparent tape prior to cutting the pieces out.*
- 3. For more ideas on how to use the MatchCards, and for keeping a notebook for review, see the Instructor's Guide.*