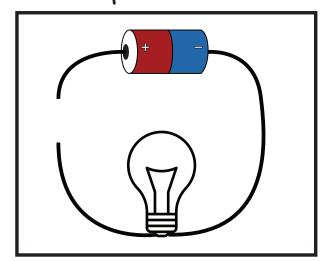
Name:

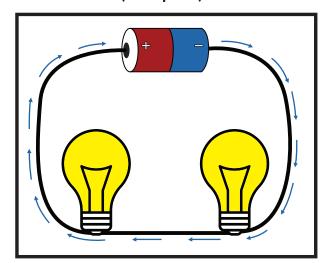
ELECTRICITY

Electricity energy is from moving electrons.

Open Circuit

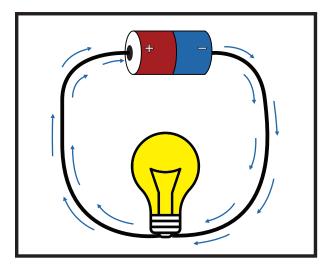


Series Circuit
(One path)

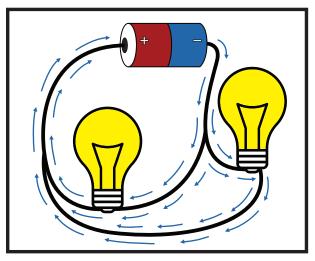


A break will stop the whole current.

Close Circuit



Parallel Circuit (more than one path)



A break may not stop all the current.

Name:		
i idilic.		

CONDUCTORS AND INSULATORS

A **conductor** is a material that allows electricity to flow through it.

A **insulator** is a material that electricity cannot flow through.

To determine whether an object is a conductor or insulator, you can build a simple circuit with a battery, light bulb, and three pieces of wire.



Touch the free ends of the wire to the object you are testing. If the light bulb lights up, the object is made from a conductor, if it does not the object is made from an insulator.

Directions: Complete the table. Predict whether each item is made from a material that is a conductor or insulator. Then test each item to determine if it is made from a conductor or insulator.

Object	PREDICTION: Conductor or Insulator	RESULT: Conductor or Insulator
rubber band		
penny		
nickel		
toothpick		
key		
paper clip		
paper fastener		
glass		
tshirt		
leaf		
drop of water		

ELECTRICITY

Conservation & Safety

Direction: Choose the correct word from the box and complete the sentences.

PLUG	
CLIMB	
FLY	
	CLIMB

Don't	_ the fence arround electrical substation.	
Don't	a bunch of things into one outlet.	
Don't	an electrical cord from the socket.	
Don't	kites close to the power lines.	
Don't	. water near electrical points.	
Put	caps on all unused outlets.	

ELECTRICITY

Electrical Appliances

Direction: Color the items that cannot work without electricity.



Name:

ELECTRICAL CHARGES

If an object has more

positive charges



than

negative charges



its electrical charge

is positive



If an object has more

negative charges



positive charges



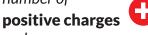
its electrical charge

is negative 👝



If an object has the same

number of



and negative charges



its has no electrical charge. or neutral

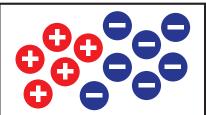
Direction: Count the positive and negative charges in each picture. Color the box with the correct charges.



POSITIVE

NEGATIVE

NEUTRAL



POSITIVE

NEGATIVE

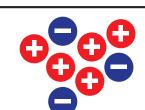
NEUTRAL



POSITIVE

NEGATIVE

NEUTRAL



POSITIVE

NEGATIVE

NEUTRAL



POSITIVE

NEGATIVE

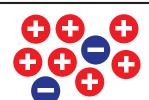
NEUTRAL



POSITIVE

NEGATIVE

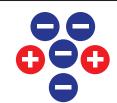
NEUTRAL



POSITIVE

NEGATIVE

NEUTRAL



POSITIVE

NEGATIVE

NEUTRAL

Name:

ELECTRICAL CIRCUIT

Symbols used to represent circuit parts:		Circuit Diagram:
Battery:	Wire: ———	
Light Bulb: 🚫	Switch: oopen ooclosed	⊗ <u></u>

Direction: Draw a circuit diagram inside the box.

