

Analyze the circuit pictures to determine if they are open or closed paths.

**Closed Path**



1. Read the definition of a closed path.
2. Look at the picture to see if it meets the requirements to be a closed path.
3. Say, I know this is a closed path because

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**Open Path**



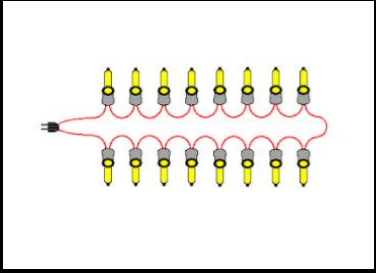
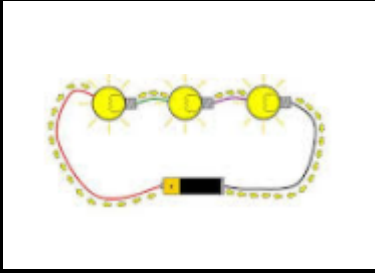
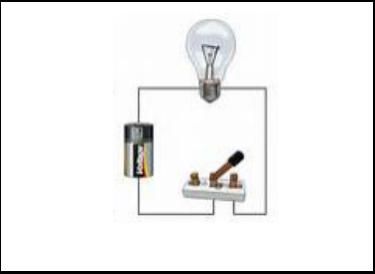
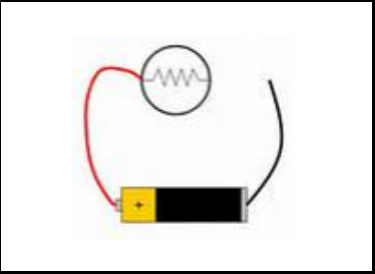
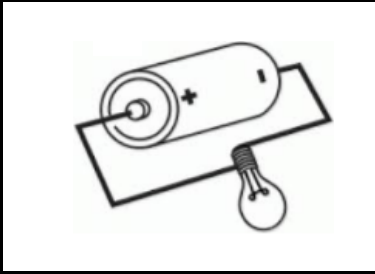
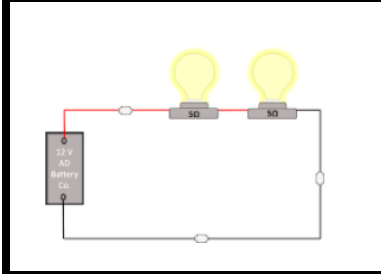
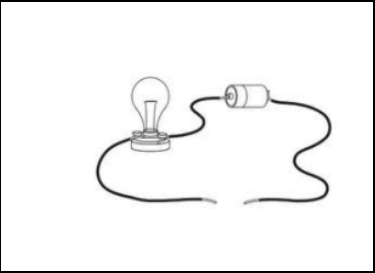
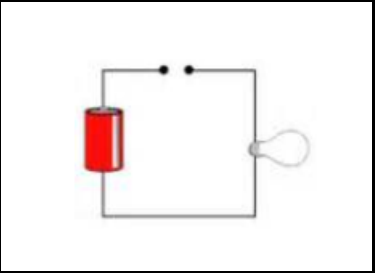
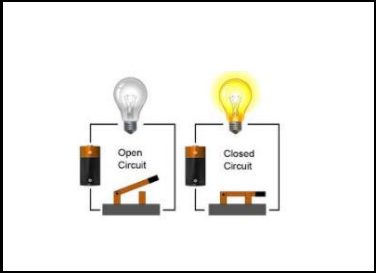
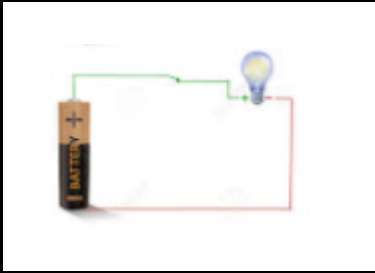
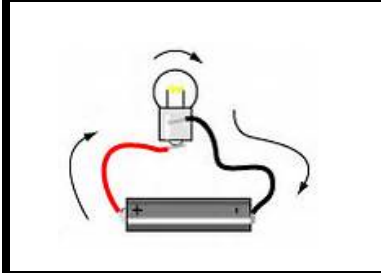
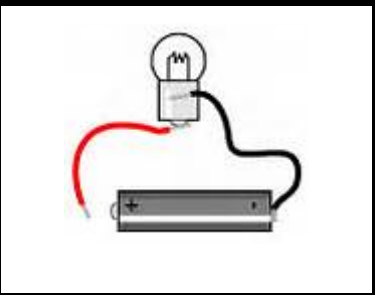
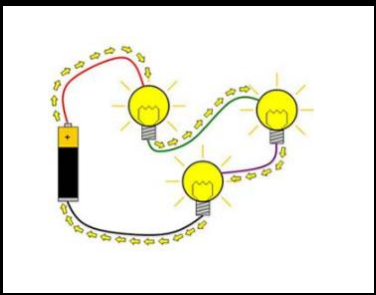
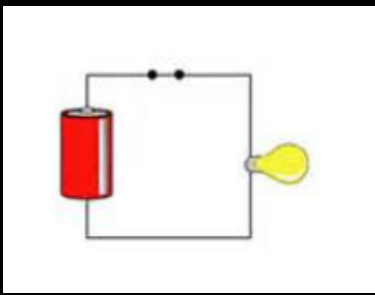
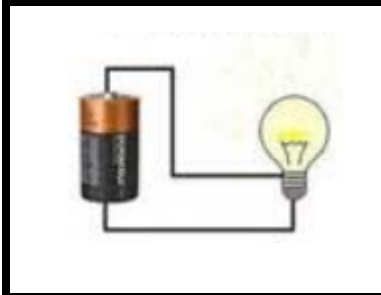
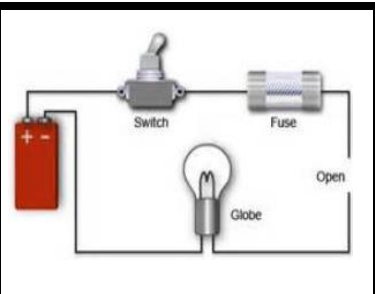
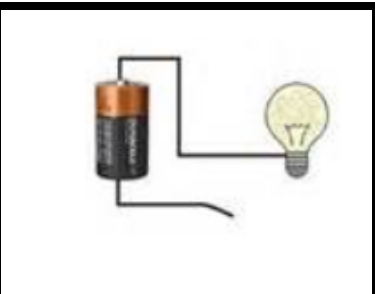
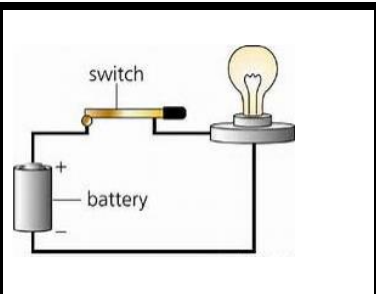
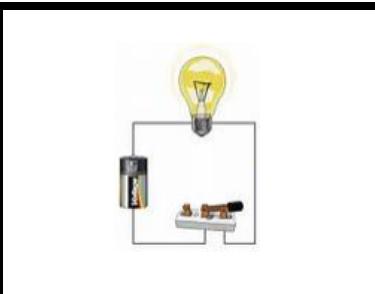
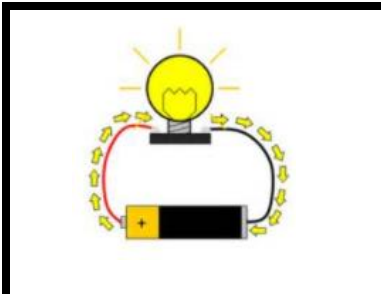
1. Read the definition of an open path.
2. Look at the picture to see if it meets the requirements to be an open path.
3. Say, I know this is an open path because

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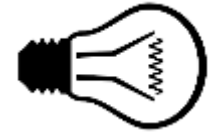
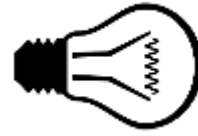
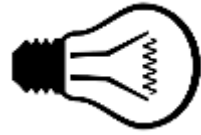
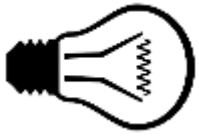
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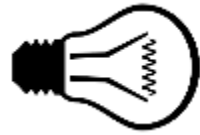
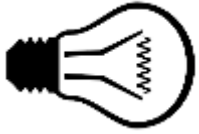
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## **Steps for circuits**

- 1. Use the circuit cutouts to build the circuit in the picture.**
- 2. Label each component of the circuit.**
- 3. Determine if the circuit is an open or closed circuit.**
- 4. Say this circuit is a (n) (open, closed) circuit because\_\_\_\_\_.**
- 5. Answer the question on the card.**



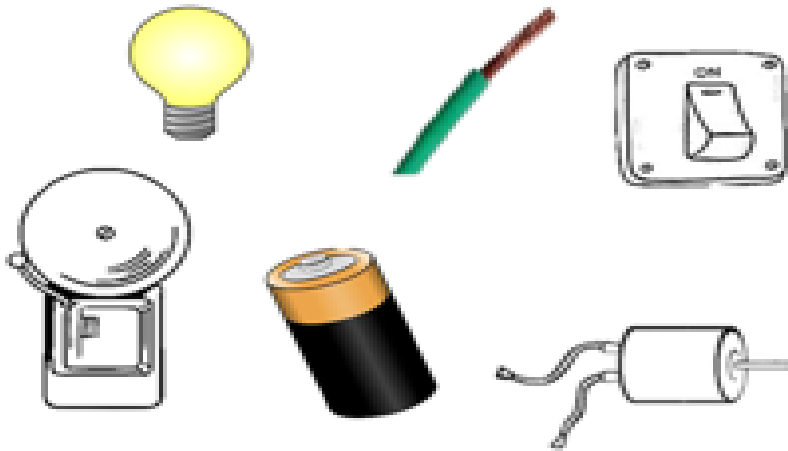


# LABELS

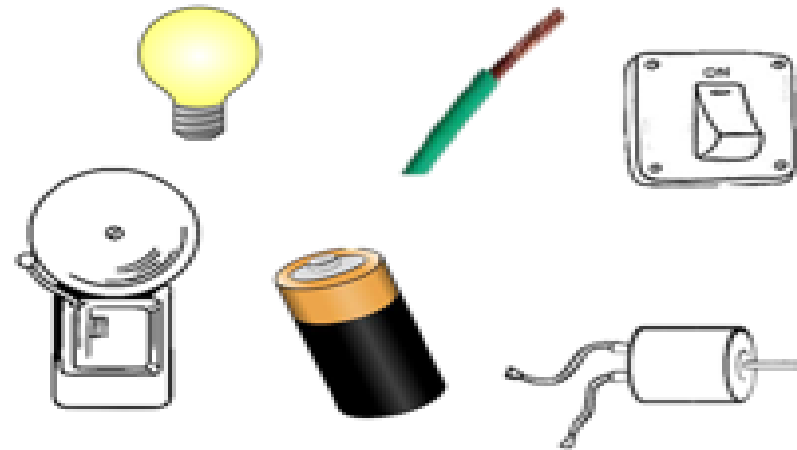
ON LIGHT BULB	ON LIGHT BULB	ON LIGHT BULB	ON LIGHT BULB
OFF LIGHT BULB	OFF LIGHT BULB	OFF LIGHT BULB	OFF LIGHT BULB
BATTERY	BATTERY	BATTERY	BATTERY
OPEN SWITCH	OPEN SWITCH	OPEN SWITCH	OPEN SWITCH
CLOSED SWITCH	CLOSED SWITCH	CLOSED SWITCH	CLOSED SWITCH
WIRE	WIRE	WIRE	WIRE
WIRE	WIRE	WIRE	WIRE

Demonstrate that electricity travels in a closed path, creating an electrical circuit

How many different circuits can you create using the following items?

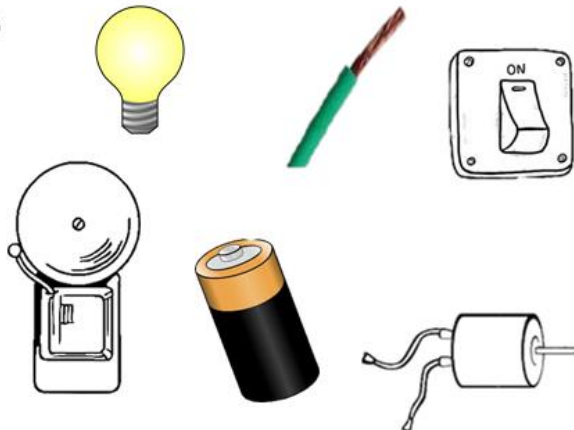


Label each of the following components.



Select all the things that must be present to create light energy.

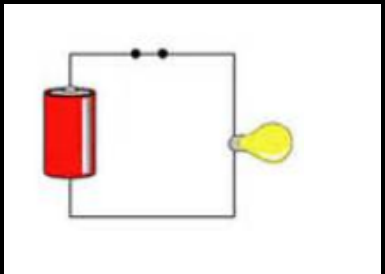
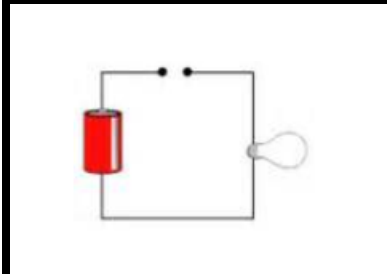
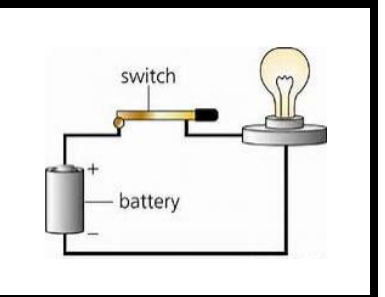
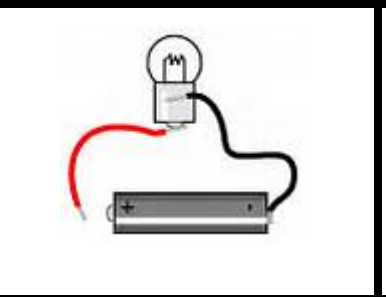
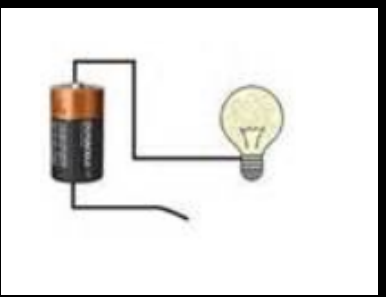
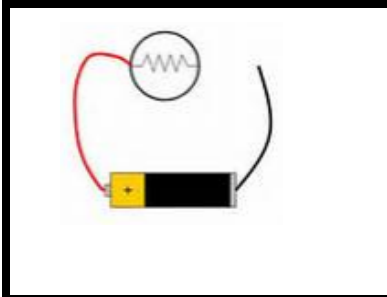
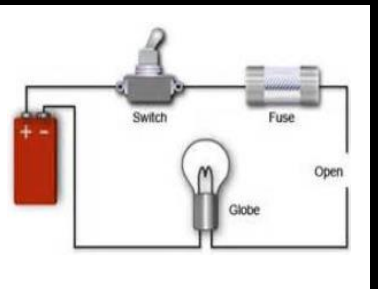
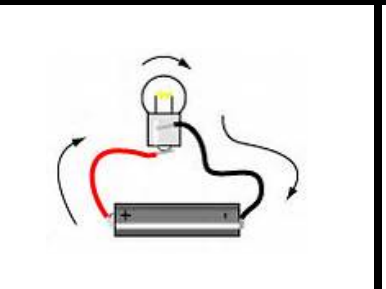
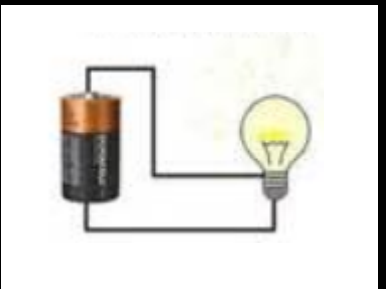
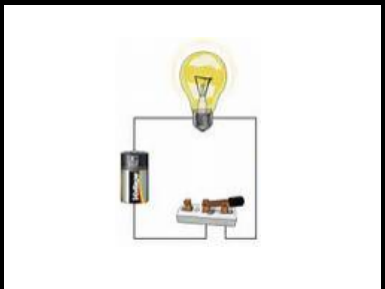
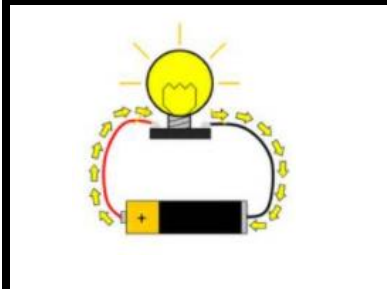
- Source (battery)
- Switch
- Wire(s)
- Bulb
- Bell
- Motor



Select all the things that must be present to allow electrical energy to flow.

- Source (battery)
- Switch
- Wire(s)
- Bulb
- Bell
- Motor





OPEN CIRCUIT  
CLOSED CIRCUIT  
MEMORY

**OPEN**

**OPEN**

**OPEN**

**OPEN**

**OPEN**

**OPEN**

**CLOSED**

**CLOSED**

**CLOSED**

**CLOSED**

**CLOSED**

**CLOSED**



