

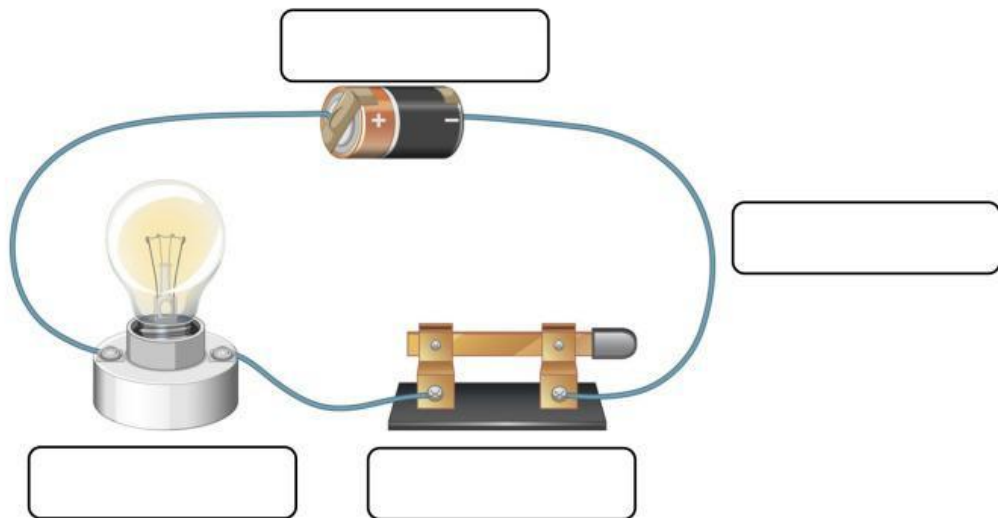
Name: _____

Class: _____

MIDTERM 2 REVIEW

A. Language Check

1. Label the components in this circuit.



2. Read the definitions. Circle the correct word for each definition. Highlight the bold letter of each correct answer. What word do these letters make?

a. This component provides electricity for a circuit.

A. wire **B.** battery **C.** switch **D.** bulb

b. This component gives out light.

S. buzzer **T.** switch **U.** bulb **D.** wire

c. This carries electricity around a circuit.

L. wire **M.** battery **N.** bulb **O.** switch

d. This component is used to close or break a circuit.

A. bulb **B.** switch **C.** buzzer **D.** battery

The letters I highlighted make this word:

3. Complete the words and match them with the correct definition.

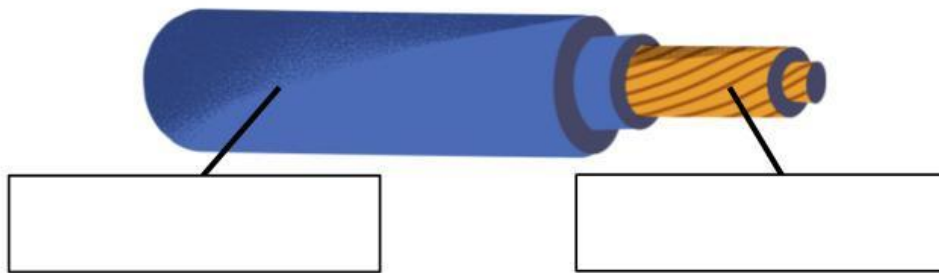
Then, use the words to label the picture.

a. c _ _ d _ _ t _ r

A. A material that does not let electricity flow through.

b. i _ s _ _ a _ o _

B. A material that lets electricity flow through.



B. Content Check

1. Circle whether the following statements are **TRUE** or **FALSE**. Then, cross the wrong words and correct them. One is done for you.

0. A battery can close or break a circuit.

True

False

Correction: A switch.

a. Electricity has to flow in an incomplete pathway.

True

False

Correction:

b. A bulb can give light when electricity flows through it.

True

False

Correction:

c. Electrical insulators allow electricity to flow through them.

True

False

Correction:

d. Wires carry electricity around a circuit.

True

False

Correction:

2. Sort the following objects into 2 groups: conductors and insulators.



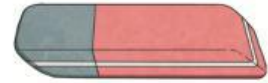
paper clip



coin



rubber band



eraser



popsicle stick



copper wire



key



plastic block(s)

Conductors	Insulators

3. Answer the following questions.

a. Name three good conductors of electricity.

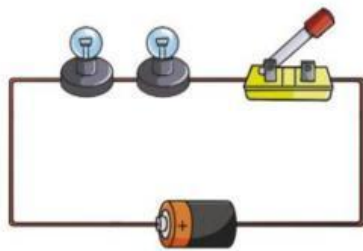
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b. Explain why electrical wires are covered with plastics.

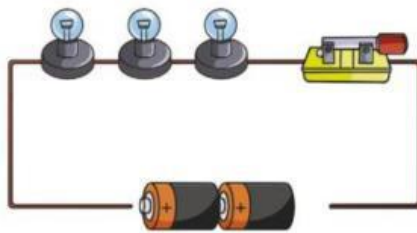
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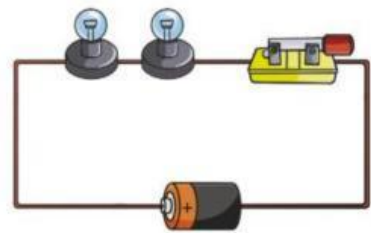
4. a. Which circuit below would allow the bulbs to light up? Tick (✓).



A

☐


B

☐


C

☐

b. Explain what happens when a circuit is incomplete.

.....

.....

c. What happens if you change the closed switch in circuit C with a plastic spoon? Explain your answer.

.....

.....

5. a. Draw the circuit symbol of each component in the box below.

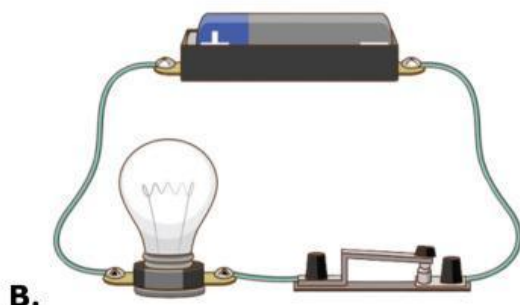
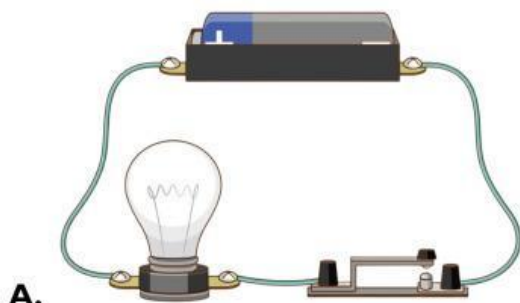






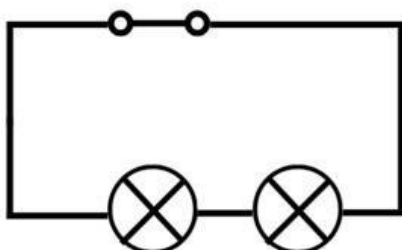


b. Draw the circuit diagram for each electrical circuit below.



6. Look at the electrical circuits. Answer the questions.

Circuit A:



a. What are the components in this circuit?

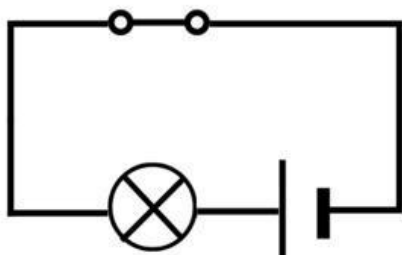
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b. Will the bulbs light up? Yes No

c. What is missing from this circuit to make it work?

.....

Circuit B:



a. What are the components in this circuit?

.....

b. Will the bulb light up? Yes No

c. What is missing from this circuit to make it work?

.....

7. Choose the correct answer.

- a. What provides electricity in an electrical circuit?
- A.** a conductor **B.** a battery
C. a wire **D.** a bulb
- b. Which material is a conductor?
- A.** plastic **B.** glass
C. rubber **D.** gold
- c. Johnny sets up a circuit containing a battery, wires, a switch, and a bulb. The circuit is incomplete when the switch is
- A.** closed **B.** wired
C. open **D.** turn on
- d. Which is NOT TRUE about electricity?
- A.** The wires in the circuits are covered in plastic.
B. A bulb can light up when the circuit is complete.
C. A switch can close or break a circuit.
D. Electricity can flow through a piece of glass.

8. Fill the gaps using the word from the box. There is one EXTRA word.

electricity (x2)	circuit	battery	components
bulb	conductors (x2)	insulators (x2)	complete

- a. _____ has to flow in a (an) _____ pathway.
- b. Wires carry the _____ from a (an) _____ to all the different parts of a (an) _____. The parts of a circuit are called _____.
- c. Materials that allow electricity to flow through are called _____. The inner part of a wire is made from _____.
- d. Materials that do not allow electricity to flow through are called _____. The outer part of a wire is made from _____.