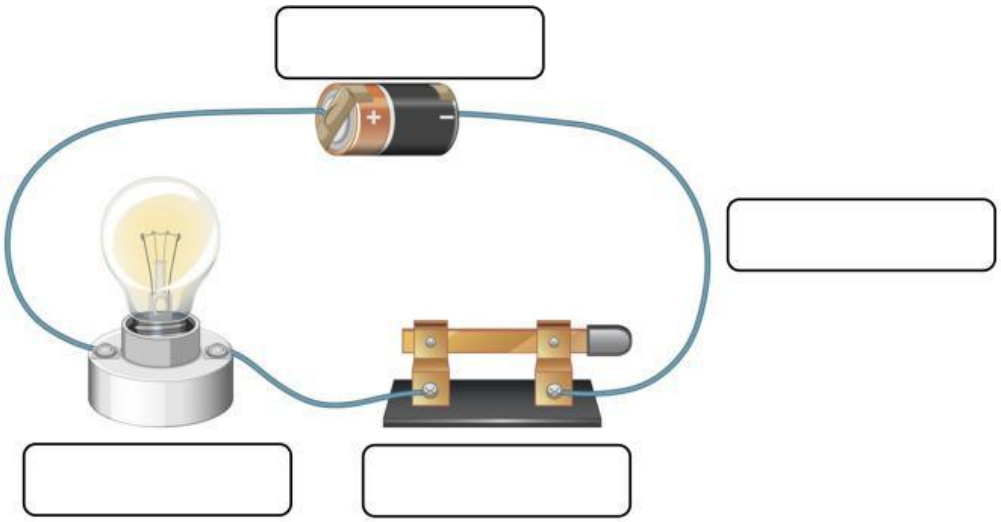
IEG SCHOOL PARTNER

**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.

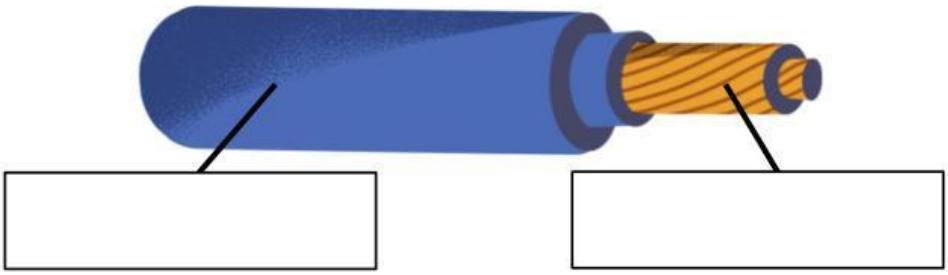
**A.** bulb **B.** switch **C.** buzzer **D.** battery

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

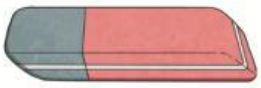
Correction: .....

**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.

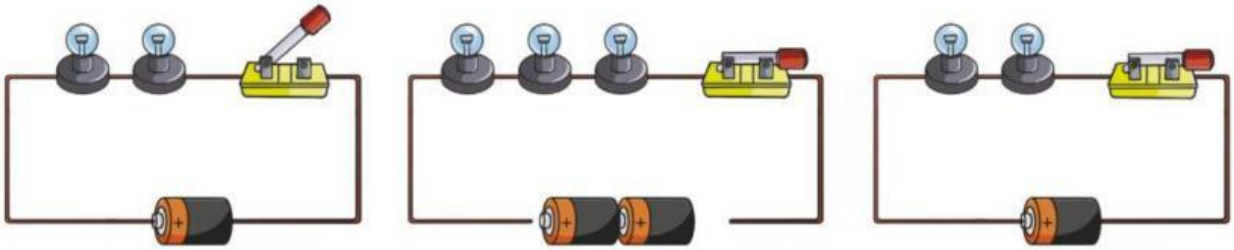
.....

**b.** Explain why electrical wires are covered with plastics.

.....

.....

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.

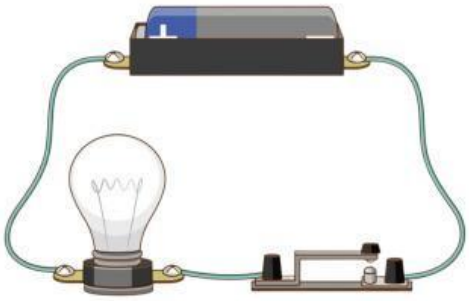
.....

.....

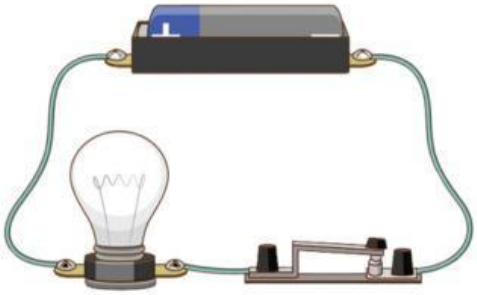
5. a. Draw the circuit symbol of each component in the box below.

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

**A.**

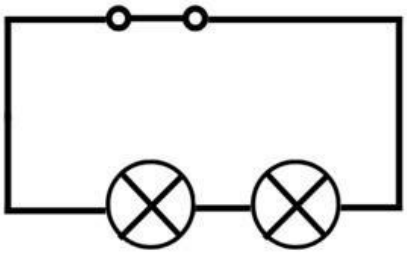


**B.**



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

**Circuit A:**



**a.** What are the components in this circuit?

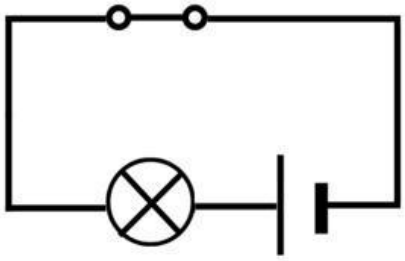
.....

**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 _____.