

BLM Answers

BLM 5-1 Circuit Symbols Activity

1. Diagram A

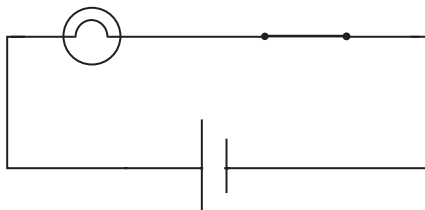
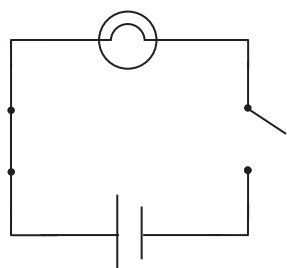


Diagram B

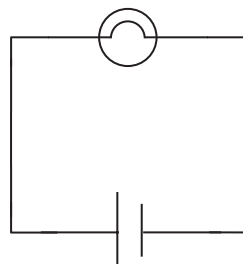
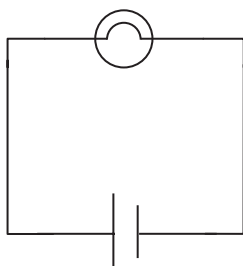


BLM 5-2 Label the Picture

1. static shock
2. static electricity
3. closed circuit
4. source
5. load
6. switch
7. open circuit

BLM 5-3 Circuit Diagrams

1.



2. a) 2

b) There should be a box around each battery.

c) 3

d) There should be an X on each of 3 bulbs.

e) 1

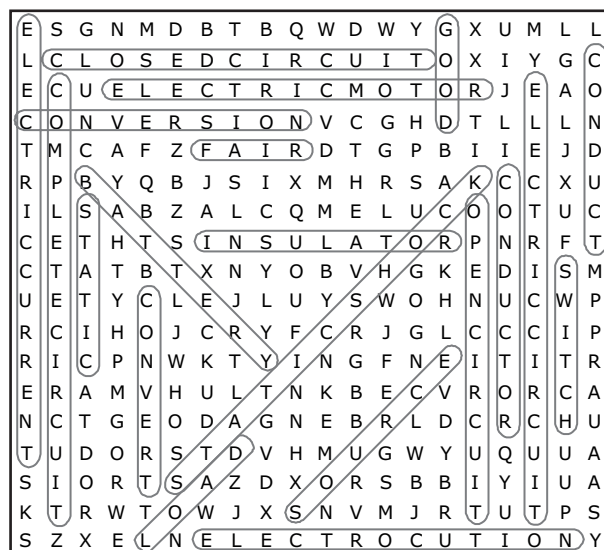
f) There should be a circle around the switch.

BLM 5-5 Energy Conversions

1. and 2. Look for any 8 of the following in any order:

- refrigerator; cool air (also sound and could include light and heat from bulb)
- microwave oven; heat (also motion and sound)
- radio; sound (could include motion from vibration)
- school bus; motion (also sound and heat)
- stove/oven; heat (also light and could be sound)
- cellphone; sound (also light)
- toaster; heat (also motion and sound)
- lights; light (also heat)
- CD player; sound (also could be light)

BLM 5-6 Chapter 5 Word Puzzle



BLM 5-7 Chapter 5 Practice Test

1. f) electric circuit
2. d) static electricity
3. b) conductor
4. e) electric current
5. a) load
6. c) insulator
7. a) F. The load in a household circuit may be thousands of kilometres away from its source.

b) F. Your body is an example of a poor conductor. Or, students may give an example of an insulator such as rubber, plastic, or glass.

c) F. When a switch is turned on, the circuit is closed. Or, when a switch is turned off, the circuit is open.

d) T

8. bulb



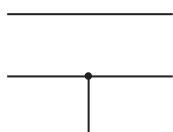
switch



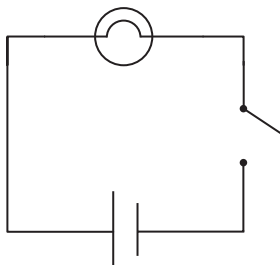
battery



wire



9.



10. Answers will vary. For example:

- a) light bulb
- b) baseboard heater
- c) fan
- d) radio

11. a) battery

b) light bulb

c) The battery converts chemical energy to electric energy. The bulb converts electric energy to light energy.

BLM 5-8 Chapter 5 Test

1. d) open circuit

2. c) electrocution

3. a) battery

4. b) switch

5. f) light bulb

6. e) closed circuit

7. a) T

b) F. Electric current cannot flow through an open circuit. Or, electric current can flow through a closed circuit.

c) F. A battery converts chemical energy to electric energy.

d) T

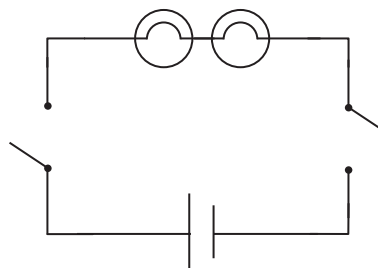
8. a) bulb (load)

b) switch

c) battery (source)

d) wire (conductor)

9.



10. Answers will vary. For example:

- a) bulbs
- b) hot plates
- c) fans
- d) public address system

11. a) battery

b) on/off button

c) The battery converts chemical energy to electric energy. The electric energy converts to light energy.