

Name: _____

Date: _____

BLM 6-3

Chapter 6 Test

For questions 1 to 7, write the term from column B that matches the description in column A.

A	B
1. These batteries have a liquid conductor: _____	a) portable
2. The total amount of stored energy in a battery: _____	b) capacitor
3. These batteries have a solid conductor: _____	c) capacity
4. The part of a charging system that stores the energy: _____	d) battery
5. Power that can be moved from place to place: _____	e) dry batteries
6. Batteries that can be re-used: _____	f) wet batteries
7. Batteries that are thrown out after use: _____	g) disposable batteries
	h) rechargeable batteries

8. Decide whether each of the following statements is true or false. If it is false, rewrite it to make it true.

a) **True/False** A battery is a device that converts electric energy to chemical energy.

b) **True/False** All batteries can be thrown in the trash when they no longer work.

c) **True/False** High-drain electric devices can use up high-capacity batteries very quickly.

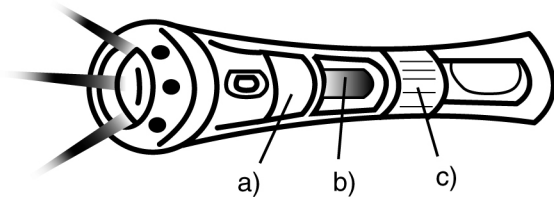
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(continued)

9. Use the terms in the box to label the diagram of a charging system.

capacitor magnet wire coil



- a) _____
b) _____
c) _____

10. Identify one advantage of batteries over other sources of electric energy.

11. List two benefits of battery-free flashlights.

- a) _____
b) _____

For questions 12 to 14, circle the correct answer.

12. Nickel-cadmium batteries are TOXIC NON-TOXIC.
13. Disposable alkaline batteries are RECHARGEABLE NOT RECHARGEABLE.
14. The chemical reactions in RECHARGEABLE DISPOSABLE
batteries can be reversed.
15. a) Draw a circuit diagram to show how you would arrange two 1 V
batteries to power a 2 V LED.

- b) If the battery is too weak, what two things could you do to increase the
battery's strength?

