Use with textbook pages 248-254.

Static charge

Match each Term on the left with the corresponding Diagram label on the right. Each label may be used more than once.

Moda Illoto man esse		
Term	Diagram	
1 proton 2 neutron 3 electron 4 has no charge 5 has a positive charge 6 has a negative charge 7 can move from one atom to another 8 and make up the nucleus (name 2 parts of the atom)	B	

Circle the letter of the best answer.

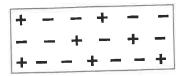
- 9. A neutral object has exactly the same number of
 - A. protons and neutrons
 - B. protons and electrons
 - C. neutrons and electrons
 - D. protons, neutrons, and electrons

Use the following diagram to answer question 10.

- 10. What is the electric charge on the object shown above?
 - A. neutral
 - **B.** positive

- C. negative
- D. It is impossible to tell.

Use the following diagram to answer questions 11 and 12.



- 11. What is the electric charge on the object shown above?
 - A. neutral
 - B. positive
 - C. negative
 - **D.** It is impossible to tell.
- 12. Which of the following describes the object shown above?
 - A. It lost protons.
 - B. It lost electrons.
 - **C.** It gained protons.
 - **D.** It gained electrons.
- **13.** A vinyl rod is rubbed with a cotton cloth. The vinyl rod becomes negatively charged and the cotton cloth becomes positively charged. Which of the following describes the cotton cloth?
 - A. It has gained electrons.
 - **B.** It has more electrons than protons.
 - **G.** It has more protons than electrons.
 - **D.** It has the same number of protons as electrons.
- 14. Which of the following is a good conductor?
 - A. glass
 - B. wood
 - C. copper
 - D. fur

Use with textbook pages 258-262.

Electric force

Match each Diagram on the left with the best Descriptor on the right. Each Descriptor may be used more than once.

Diagram	Descriptor
2	A. suspended spheres will move away from each other B. suspended spheres will move toward each other C. suspended spheres will not move
4	

Circle the letter of the best answer.

5. Which of the following applies to a neutral object?

1.	It is attracted to a positive surface.
II.	It is attracted to a negative surface.
111.	It has the same number of protons as electrons.

- A. I and II only
- B. I and III only
- C. II and III only
- D. I, II, and III

- **6.** A negatively charged ruler is brought near a suspended ball. The ball is repelled by the ruler. What can you conclude from this observation?
 - **A.** The ball is neutral.
 - **B.** The ball is positively charged.
 - **C.** The ball is negatively charged.
 - **D.** The ball is either neutral or positively charged.
- 7. Two suspended balloons repel each other when brought close together. What can you conclude about the balloons?
 - **A.** They have opposite charges.
 - B. They both have the same charge.
 - **C.** One balloon is neutral and the other balloon is positively charged.
 - **D.** One balloon is neutral and the other balloon is negatively charged.
- **8.** How does the electric force change as the amount of charge is increased?
 - A. It increases.
 - **B.** It decreases.
 - **C.** It stays the same.
 - **D.** It increases and then decreases.
- **9.** Which of the following statements is true about the relationship between distance and electric force?
 - **A.** If the distance between charged objects decreases, the electric force decreases.
 - **B.** If the distance between charged objects decreases, the electric force stays the same.
 - **C.** If the distance between charged objects increases, the electric force increases.
 - **D.** If the distance between charged objects increases, the electric force decreases.