NAME:

CHAPTER 10 Sectio

Section 10.2 Review (Alternative Format)

Goal • To review the concepts from Section 10.2.

- 1. Draw a line to match each term with its effect.
 - · charging by contact
 - · charging by friction

- changes distribution of electrons on another object, but does not change the object's overall charge
- generates opposite charges on the materials rubbed together
- · charging by induction
- generates the same type of charge on the neutral object as the charged object
- 2. A metal leaf electroscope is charged. A positively charged rod moves near the sphere.
 - a. Draw charges on the electroscope.



- **b.** The charge on the electroscope is _____ (positive / negative).
- c. How would the diagram change if the sphere and rod were insulators?
 - A. The leaves would get closer together.
 - **B.** The leaves would move apart.
 - C. No change.

Explain how you know.



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3. Look at this figure.	ases) as distance increases.
	stick the charged balloon
 4. You can charge a balloon by rubbing it against your clothing. Then you can to a wall. a. The wall is charged by (contact / friction / induction) b 	
to a wall.	ecause
to a wall. a. The wall is charged by (contact / friction / induction) b	ecause



7. The diagram shows representative charges on a rod and two identical metal spheres.



- **a.** What is the charge on the rod?
- **b.** The rod is moved closer to the spheres. Draw the resulting charges.









d. The rod is moved away. Draw the charges on the spheres and the rod.



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