

Section 9.3 Explaining Static Electricity

- 1) What theory was accepted by scientists for over a hundred years?
- 2) Give a brief explanation of this theory?
- 3) Who discovered the electron?
- 4) What happened to the theory in question # 1 after the electron was discovered?
- 5) What does all matter consist of?
- 6) Define conductor.
- 7) Why is silver a better conductor than aluminum?
- 8) How do electrons travel through conductors?
- 9) Define insulator.
- 10) Do all insulators hold onto their electrons the same amount?
- 11) What happens when two oppositely charged objects approach each other, but do not touch?
- 12) What happens after the spark?
- 13) Is dry air a good conductor or insulator?

- 14) Do all atoms have the same characteristics?
- 15) Can protons move from one material to another?
- 16) What is it called when materials gain electrons?
- 17) What is it called when materials lose electrons?
- 18) Is the Earth a good conductor? Explain

- 19) What can grounding prevent?
- 20) What should always be grounded?
- 21) What could happen if a refrigerator was not grounded? Explain

- 22) What materials are sensitive to surges of electrical energy?
- 23) What is a common way to ground wiring?
- 24) What does the third prong do on a plug?