

# CHAPTER 20

# STUDY GUIDE

## STATIC ELECTRICITY

### Vocabulary Review

Write the term that correctly completes the statement. Use each term once.

charging by conduction

charging by induction

conductor

coulomb

Coulomb's law

electroscope

electrostatics

elementary charge

grounding

insulators

neutral

1. \_\_\_\_\_ An atom is said to be \_\_\_\_\_ if the positive charge of the nucleus exactly balances the negative charge of the surrounding electrons.
2. \_\_\_\_\_ \_\_\_\_\_ states that the magnitude of the force between charge  $q_1$  and charge  $q_2$ , separated by a distance  $r$ , is proportional to the magnitude of the charges and inversely proportional to the square of the distance.
3. \_\_\_\_\_ \_\_\_\_\_ is the process of connecting a body to Earth to eliminate excess charge.
4. \_\_\_\_\_ The study of electric charges that can be collected and held in one place is called \_\_\_\_\_.
5. \_\_\_\_\_ The \_\_\_\_\_ is the SI standard unit of charge.
6. \_\_\_\_\_ Giving a neutral object a charge by touching it with a charged object is called \_\_\_\_\_.
7. \_\_\_\_\_ An electric \_\_\_\_\_ is a material through which charges move about easily.
8. \_\_\_\_\_ A device that helps determine charge using pieces of metal foil is a(n) \_\_\_\_\_.
9. \_\_\_\_\_ Materials through which electrical charges do not move easily are electrical \_\_\_\_\_.
10. \_\_\_\_\_ Separating the charges in an object without touching it is called \_\_\_\_\_.
11. \_\_\_\_\_ The magnitude of the charge of an electron is the \_\_\_\_\_.

# Chapter 20 Static Electricity Answer Key

**JA Banks**



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