

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. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_
4. \_\_\_\_\_
5. \_\_\_\_\_
6. \_\_\_\_\_
7. \_\_\_\_\_
8. \_\_\_\_\_
9. \_\_\_\_\_
10. \_\_\_\_\_
11. \_\_\_\_\_

- An atom is said to be \_\_\_\_\_ if the positive charge of the nucleus exactly balances the negative charge of the surrounding electrons.
- \_\_\_\_\_ 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.
- \_\_\_\_\_ is the process of connecting a body to Earth to eliminate excess charge.
- The study of electric charges that can be collected and held in one place is called \_\_\_\_\_.
- The \_\_\_\_\_ is the SI standard unit of charge.
- Giving a neutral object a charge by touching it with a charged object is called \_\_\_\_\_.
- An electric \_\_\_\_\_ is a material through which charges move about easily.
- A device that helps determine charge using pieces of metal foil is a(n) \_\_\_\_\_.
- Materials through which electrical charges do not move easily are electrical \_\_\_\_\_.
- Separating the charges in an object without touching it is called \_\_\_\_\_.
- The magnitude of the charge of an electron is the \_\_\_\_\_.

# Chapter 20 Static Electricity Answer Key

**M Mosston**



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