

Topic 1 - Electric Charges

1. These **forces** are responsible for lightning, nature's most spectacular show of electricity ...
 - A. **magnetic forces**
 - B. **electric forces**
 - C. **attractive forces**
 - D. **repelling forces**
2. Some particles in an atom are charged. Those that are **charged negatively** are called ...
 - A. **neutrons**
 - B. **electrons**
 - C. **nucleus**
 - D. **protons**
3. When **charged objects** are brought close to uncharged objects, this occurs ...
 - A. **separation**
 - B. **attraction**
 - C. **neutralization**
 - D. **atomization**
4. The **laws of electric charges** include all of the following, EXCEPT...
 - A. **opposite charges attract each other**
 - B. **charged objects attract neutral objects**
 - C. **similar (like) charges repel each other**
 - D. **opposite charges repel each other**
5. A **Van de Graaff generator** uses this to build up a static charge on its surface ...
 - A. **friction**
 - B. **heat**
 - C. **moisture**
 - D. **light**
6. Electric charge can be detected using an electroscope. A pocket-sized version, used to measure exposure to atomic radiation is called a ...
 - A. **ocilloscope**
 - B. **dosimeter**
 - C. **radioscope**
 - D. **atom-radiator**
7. Materials can be conductors, semiconductors, superconductors, or insulators. Which of the following materials would make a good insulator?
 - A. **aluminum**
 - B. **human body**
 - C. **silicon**
 - D. **porcelain**
8. One disadvantage of superconductors has been their need to be subjected to extremely ...
 - A. **low temperatures**
 - B. **high temperatures**
 - C. **high voltage lines**
 - D. **small spaces**
9. The purpose of a 'static strap' worn by electronic technicians, when working with electronic components, is to make sure the static charge on the technician's hand or body is ...
 - A. **reinforced**
 - B. **neutralized**
 - C. **dissipated**
 - D. **discharged**
10. Non-conductors, or insulators, must be neutralized with this ...
 - A. **discharge**
 - B. **radiation**
 - C. **ionization**
 - D. **recharger**