

**1. What is the major difference between static electricity and current electricity?**

- a. Current electricity involves a continuous flow of neutrons; static electricity is a sudden transfer of protons.
- b. Current electricity can be deadly; static electricity is almost always safe.
- c. In current electricity, there's a single transfer of electrons; in static electricity, there's a steady flow of electrons.
- d. Current electricity involves a flow of electrons; static electricity involves a single transfer of electrons.

**2. What is static electricity caused by?**

- a. A balance of power.
- b. A balance of positive and negative charges.
- c. An imbalance of positive and negative charges.
- d. An imbalance of protons and neutrons.





**3. If a substance has an excess number of electrons on its surface, what type of charge does it have?**

- a. A positive charge
- b. A negative charge
- c. A neutral charge
- d. A nuclear charge

**4. Which of the following atoms is considered neutral?**

- a. An atom with five protons, six neutrons, and five electrons
- b. An atom with five protons, five neutrons, and six electrons
- c. An atom with six protons, five neutrons, and five electrons
- d. An atom with six protons, six neutrons, and five electrons

**5. Which of these materials is an insulator?**

- a. 
- b. 
- c. 
- d. 

**6. How are electrons different from protons and neutrons?**

- a. Protons and neutrons are negatively charged; electrons are positively charged.
- b. Protons and neutrons exist inside atomic nuclei; electrons orbit atomic nuclei.
- c. Electrons exist inside atomic nuclei; protons and neutrons orbit atomic nuclei.
- d. Protons and neutrons are positively charged; electrons have no charge.

**7. What role does adhesion play in static electricity?**

- a. It causes atomic nuclei to become unstable.
- b. It makes sure that atoms stay neutrally charged.
- c. It prevents certain materials from giving away electrons.
- d. It pulls electrons from one surface toward another.

**8. What can you infer about any object that gives you a static shock when you touch it?**

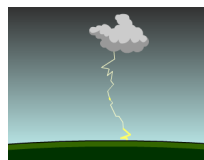
- a. It's a conductor.
- b. It's an insulator.
- c. It's negatively charged.
- d. It's positively charged.

**9. What happens when you touch a metal doorknob after rubbing your shoes on the carpet?**



- a. The doorknob sends a burst of electric current into your body.
- b. Millions of electrons go from your finger into the doorknob.
- c. The doorknob sends millions of electrons into your finger.
- d. Your finger becomes negatively charged.

**10. Lightning is a form of static electricity. What can you infer about what happens when lightning strikes the ground?**



- a. Protons and neutrons are transferred from the clouds to the ground.
- b. The ground becomes negatively charged.
- c. Electrons are transferred from the clouds to the ground.
- d. An electric current is established between the clouds and the ground.