

**THE MECHANICAL UNIVERSE**  
**Video 28 - Static Electricity**

**Name:** \_\_\_\_\_  
**Class:** \_\_\_\_\_

1. What is the cause of the electric force?
2. What did Coulomb's experiment reveal?
3. Why is an understanding of electricity essential to the study of matter?
4. What is the nucleus made of?
5. What is an ion? Give an example of an ion:
6. List 3 properties common to metals:
7. What gives metals their special properties?
8. Describe the function of a gold-leaf electroscope:
9. What natural phenomenon involves huge build-ups and releases of electric charge?
10. Describe "charging by induction"?
11. What compact device eventually replaced the electrostatic generators?