

Name: \_\_\_\_\_

Date: \_\_\_\_\_

Division: \_\_\_\_\_

### Electrical Charge

#### Video Questions

1. Materials that are \_\_\_\_\_ allow \_\_\_\_\_ to move freely.
2. What causes charged particles to move is an \_\_\_\_\_ of \_\_\_\_\_, when some part of an object has a \_\_\_\_\_ of free electrons than \_\_\_\_\_.
3. An object has a net negative charge when it has \_\_\_\_\_.
4. An object that has \_\_\_\_\_ is missing free electrons.
5. The Law of Conservation of Electric Charge states that: You can never \_\_\_\_\_ a net electric charge. Charge can only \_\_\_\_\_ from \_\_\_\_\_ to \_\_\_\_\_.
6. When an object is polarized, it has an internal \_\_\_\_\_, even though it is still electrically neutral.
7. Charging by \_\_\_\_\_ creates a \_\_\_\_\_ even without contacting \_\_\_\_\_.
8. Allowing all of the excess charge in an object to pass into the Earth is called \_\_\_\_\_.
9. To calculate the electrical force on an object, you must know its \_\_\_\_\_, which is symbolized by the variable \_\_\_\_\_ and is measured in \_\_\_\_\_, which have the symbol \_\_\_\_\_.
10.  $6.24 \times 10^{18}$  is the \_\_\_\_\_ in one \_\_\_\_\_ of charge.
11. The equation for Coulomb's Law is similar to the equation for \_\_\_\_\_.
12.  $9 \times 10^9$  Newton-meters squared per Coulombs squared is the value for \_\_\_\_\_, which is also known as the \_\_\_\_\_ Constant.
13. Electrical force has a \_\_\_\_\_ sign if the force is pushing objects apart, and a \_\_\_\_\_ sign if the force is acting to pull the objects together.