

Name: _____ Date: _____

m_r^β **Physics Practice: Coulomb's Law Guided Notes**

Coulomb's Law is the electrical analog of Newton's Law of Universal Gravitation. Where Newton's law applies to masses, Coulomb's Law applies to electrical charges.

1. What does it mean for a typical object to have an electrical charge?

2. Research the meaning of *ampere*. Define it in your own words.

3. Using familiar powers of ten (e.g. thousands, millions, billions), how many electrons pass by in one ampere in one second?

4. What is a *coulomb*?

5. What is *Coulomb's Law*?

6. Study <http://www.mrbenson.org/electric-fields/>. If the application represented gravity instead of electrical charge, how would the lines of force be different?