

1. Based on your notes, why can you turn the light on in your room by flicking the light switch to the “on” position?
2. Write out how many electrons are in one coulomb in standard form.
3. What is another way of expressing one coulomb per second?
4. What is the difference between an electrolyte and an electrode?
5. What is an ammeter used for?
6. Why is copper a good conductor?
7. What is drift velocity?
8. Explain how an electric current flows through a voltaic cell. Include the anode, the cathode, the electrolytes, as well as the conducting loop.

9. What unit is used to express current?
10. A dry cell produces 3.4 coulombs of electricity in 1.7 seconds. What is the current that flows through an ammeter? Express your answer in both coulombs/second and amperes.
11. If 4.8 coulombs of electricity pass through an electric fence in 11 seconds, what is the electric current?
12. How long would it take 5.5 coulombs of electricity to pass through an ammeter if the rate of flow of electricity is 1.5 coulombs/second?