

Study Guide: Electricity, Magnetism & Circuits

1. Study all vocab: electric force, electric field, conduction, induction, friction, conservation of charge, static electricity, electric current, ampere (amp), voltage, resistance, circuit, series circuit, parallel circuit, magnet, magnetic poles, magnetic force, magnetic fields
2. Study all chapter activities and lesson reviews in Unit 7, Lessons 1-5
3. Study all notes that you took
4. Review all study tools on Edmodo: videos, simulations, websites, notes, etc...
5. Understand: charges of the subatomic particles and how they behave
6. Know the 3 ways that objects can be charged
7. Know about charge distribution. Know how charges are distributed in conductors and insulators
8. Know the difference between conductors & insulators: identify examples of each
9. Know the difference between current electricity & static electricity
10. Identify the parts of a circuit
11. Identify types of circuits & the advantages & disadvantages of each : series circuits & parallel circuits
12. Know what is produced from an electric current: magnetic field
13. Know about electromagnets: how they are made, & what makes them stronger
14. Know about magnets: where are the strongest parts of a magnets & what happens when a magnet is cut in half; how Earth is a magnet
15. Understand the relationship between electricity & magnetism (remember your motors)
16. Know how electricity affects magnetic fields
17. Know how magnetic fields can produce electricity
18. Explain what lightning is