Electricity and Magnetism Study Guide

\*To be used with Electricity and Magnetism Demo Version\*

1. Be able to define the following terms:

1. charge
2. static electricity
3. electric field
4. electric current
5. circuit
6. electric cell
7. conductor
8. insulator
9. resistor
10. series circuit
11. parallel circuit
12. magnet
13. magnetic poles
14. magnetic field
15. electromagnet

2. Know why something gains a negative or positive charge.

3. Know why objects attract or repel one another.

4. Understand what types of materials are conductors/insulators and why.

5. Understand how magnets attract.

6. What is an electromagnet and what is it used for?

7. Understand how parallel and series circuits work.

8. How does a compass work?

9. How are electricity and magnetism related?

10. How would a compass and an electromagnet interact?

11. Understand how filings demonstrate the pull of a magnet.