**Magnetism Study Guide**

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| **Skills**   * Students will be able to... | 1. Identify the basic components of a speaker 2. Describe a force field 3. Map the magnetic field around an electromagnet and permanent magnet 4. Relate magnetic forces to the interaction of magnetic fields 5. Relate the strength of magnetic forces to the density of the field lines 6. Describe the magnetic field produced by a current-carrying wire 7. Identify the source of a magnetic field for both permanent magnets and electromagnets 8. Explain the significance of looping and coiling wire in electromagnets and solenoids |
| **Content**   * Students will know... | 1. Like poles repel; opposite poles attract 2. The direction of the magnetic field outside a magnet is from the north to the south pole 3. A magnetic field is produced by the motion of electric charge 4. A compass points northward because Earth itself is a huge magnet |

**Key Terms**

Force:

Force Field:

Model:

Magnetic Pole:

Magnetic Field:

Electromagnet:

Answer the above Skill Objectives on the back of this paper.