

SPS10. Students will investigate the properties of electricity and magnetism.

c. Investigate applications of magnetism and/or its relationship to the movement of electrical charge as it relates to **electromagnets, simple motors, and permanent magnets**

**Magnetism, Motors, and Generators Close Read (pgs. 224 - 227)**

**Define the following:**

**Electromagnetism** \_\_\_\_\_  
\_\_\_\_\_

**Magnetic field** \_\_\_\_\_

**Electromagnet** \_\_\_\_\_

**Magnetic domains** \_\_\_\_\_  
\_\_\_\_\_

**Permanent magnet** \_\_\_\_\_

**Electric motor** \_\_\_\_\_

**Electromagnetic induction** \_\_\_\_\_

**Generator** \_\_\_\_\_

1. What is the relationship between electricity and magnetism? \_\_\_\_\_  
\_\_\_\_\_

2. Who discovered the relationship between electricity and magnetism and what machines were made as a result of their discoveries? \_\_\_\_\_  
\_\_\_\_\_

3. What is the difference between a magnet and an electromagnet? \_\_\_\_\_  
\_\_\_\_\_

4. How is an electromagnet made? \_\_\_\_\_  
\_\_\_\_\_

5. What is the strength of an electromagnet proportional to? \_\_\_\_\_  
\_\_\_\_\_

6. Every magnet has a \_\_\_\_\_

7. How do magnets attract iron? \_\_\_\_\_  
\_\_\_\_\_

8. How does a compass work? \_\_\_\_\_

9. How does a motor work? \_\_\_\_\_

10. How does a generator work? \_\_\_\_\_

**Lesson Review Questions** - pg. 218 **Put the correct letter answer for the lesson review questions.**

1. \_\_\_\_\_ 2. \_\_\_\_\_ 3. \_\_\_\_\_ 4. \_\_\_\_\_ 5. \_\_\_\_\_

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Created By: Chivas Spivey