Rationale

By: Paige Weaver

This unit is designed for third grade students focused on magnetism. Throughout the unit, the student will make discoveries about various types of magnets and their effect on the objects around them. Students will explore conductors and insulators of electricity that make materials magnetic. Students will be able to identify materials as magnetic or non-magnetic. The students will learn about the several aspects of magnetic materials such as the magnetic field, poles, and force. Predictions will be made by the students throughout this unit on whether objects will attract or repel one another as well as whether or not specific objects are magnetic such as cobalt, steel, iron, plastic, and ceramics. The students will gain an awareness of magnetism within their lives such as something as simple as a compass or as large as Earth itself. Household objects such as circuit boards or a computer hard drive will also be a topic of discussion when looking at how electricity and magnetism are found in the world around us. This unit will address the standards that are listed on the bottom of the page. Various subjects will be incorporated into this unit such as reading and geography. The students will read various materials to go along with the unit as well as explore the use of new vocabulary terms. Discussion of the Earth and the location of its poles will also be a topic of discussion that will incorporate geography.

**S3.C.3.1:** Observe and identify a change in an objects motion.

**3.2.3.B4:** Identify and classify objects and materials as magnetic or non-magnetic.

**3.2.3.B4:** Identify and classify objects and materials that are conductors or insulators of electricity.

**3.2.3.A2:** Recognize that all objects and materials in the world are made of matter.

**S3.A.2.1.1:** Generate questions about objects, organisms, or events that can be answered through scientific investigations.

**S3.A.2.1.2:**Make predictions based on observations.