Unit 5
Electricity and Magnetism

High School
Physical Science

Unit Length and Description:

4 Instructional Weeks

Students will plan and conduct investigations to provide evidence that an electric current can produce a magnetic field and or changing the magnetic field can produce an electrical current. Students will also use models of two objects interacting through electric and magnetic fields to illustrate the forces between objects and the changes in energy of the objects due to this interaction.

Science Standards:

HS-PS2-5	Plan and conduct an investigation to provide evidence that an electric current can produce a magnetic field and that a changing magnetic field can produce an electric current.
HS-PS3-5	Develop and use a model of two objects interacting through electric or magnetic fields to illustrate the forces between objects and the changes in energy of the objects due to the interaction.

Enduring Understandings- Unit Anchor Phenomenon:	**Essential Questions- Reflective Summaries:**
A Van de Graaff generator creates static electricity.	• Plan and conduct an investigation to provide evidence that electric current can produce a magnetic field and a changing magnetic field can produce electric current. • Develop and use a model of two objects interacting through electric or magnetic fields to illustrate the forces between objects and the changes in energy of the objects due to the interaction.