Earth and Space Science Standards:

Students develop an understanding of the different Earth systems and how they interact with each other. They understand how geological systems change and shape the Earth and the evidence that is used to understand these changes.

Core Ideas:

- E1: The composition of the Earth and its atmosphere and the natural and human processes occurring within them shape the Earth's surface and its climate.

Standards:

4.E1U1.6 - *Plan and carryout an investigation to explore and explain the interactions between Earth's major systems and the impact on Earth's surface materials and processes.*

4.E1U1.7 - *Develop and/or revise a model using various rock types, fossil location, and landforms to show evidence that Earth's surface has changed over time.*

4.E1U3.9 - *Construct and support an evidence-based argument about the availability of water and its impact on life.*

Physical Science Standards:

Students develop an understanding of how Earth's resources can be transformed into different forms of energy. Students develop a better understanding of electricity and magnetism.

Core Ideas:

- P1: All matter in the Universe is made of very small particles.
- P2: Objects can affect other objects at a distance.
- P3: Changing the movement of an object requires a net force to be acting on it.
- P4: The total amount of energy in a closed system is always the same but can be transferred from one energy store to another during an event.

Standards:

4.P4U1.1 – *Develop and use a model to demonstrate how a system transfers energy from one object to another even when the objects are not touching.*

4.P2U1.3 – *Develop and use a model to demonstrate magnetic force.*

Social Studies Standards:

The content areas of civics, economics, geography, history, and disciplinary skills and processes.

Standards:

4.SP4.1 - *Explain probable causes and effects of events and developments.*