Earth and Space Science Standards:

Students develop an understanding of the distribution and role of water and wind in weather, shaping the land, and where organisms live. Wind and water can also change environments, and students learn humans and other organisms can change environments too.

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:

2.E1U1.4 - *Observe and investigate how wind and water change the shape of the land resulting in a variety of landforms.*

2.E1U1.5 - *Develop and use models to represent that water can exist in different states and is found in oceans, glaciers, lakes, rivers, ponds and the atmosphere.*

2.E1U3.7 - *Construct an argument from evidence regarding positive and negative changes in water and land systems that impact humans and the environment.*

Physical Science Standards:

Students develop an understanding of observable properties of matter and how changes in energy (heating or cooling) can affect matter or materials.

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.

Standards:

2.P1U1.1 - *Plan and carry out an investigation to determine that matter has mass, takes up space, and is recognized by its observable properties; use the collected evidence to develop and support an explanation.*

2.P1U1.2 - *Plan and carry out investigations to gather evidence to support an explanation on how heating or cooling can cause a phase change in matter.*

2.P4U1.3 - *Obtain, evaluate and communicate information about ways heat energy can cause change in objects or materials.*

Social Studies Standards:

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

Standards:

2.SP1.2 - *Understand how events of the past affect students' lives and communities.*

2.G1.2 - *Use maps, globes, and other simple geographic models to identify and explain cultural and environmental characteristics of places in the world.*

2.G2.1 - *Explain how weather, climate, and other environmental characteristics affect people's lives in a place or region being studied.*

2.G2.2 - *Describe how human activities affect the communities and the environment of places or regions.*

2.G2.3 - *Describe the positive and negative effects of using natural resources.*