Physical Science Standards:

Students develop an understanding that changes can occur to matter/objects on Earth or in space, but both energy and matter follow the pattern of being conserved during those changes.

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:

5.P1U1.1 – *Analyze and interpret data to explain that matter of any type can be subdivided into particles too small to see and, in a closed system, if properties change or chemical reactions occur, the amount of matter stays the same.*

5.P2U1.3 – *Construct an explanation using evidence to demonstrate that objects can affect other objects even when they are not touching.*

5.P4U1.6 – *Analyze and interpret data to determine how and where energy is transferred when objects move.*

Social Studies Standards

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

Standards:

5.SP4.2 - *Use evidence to develop a claim about the past.*

5.G2.1 - *Describe how natural and human-caused changes to habitats or climate can impact our world.*