Life Science:

Students develop an understanding of patterns and how genetic information is passed from generation to generation. They also develop the understanding of how genetic information and environmental features impact the survival of an organism.

Core Ideas:

- L1: Organisms are organized on a cellular basis and have a finite life span.
- L2: Organisms require a supply of energy and materials for which they often depend on, or compete with, other organisms.
- L3: Genetic information is passed down from one generation of organisms to another.
- L4: The unity and diversity of organisms, living and extinct, is the result of evolution.

Standards:

5.L3U1.10 - *Construct an explanation based on evidence that the changes in an environment can affect the traits in a population of organisms.*

5.L4U3.11 - *Obtain, evaluate, and communicate evidence about how natural and human-caused changes to habitats or climate can impact populations.*

5.L4U3.1 - *Construct an argument based on evidence that inherited characteristics can be affected by behavior and/or environmental conditions.*

Physical Science:

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:

- 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.P4U1.6 - *Analyze and Interpret data to determine how and where energy is transferred when objects move.*

Social Studies:

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

Standards:

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