

WEB - Grade 4

Life Science:

Students develop an understanding of the diversity of past and present organisms, factors impacting organism diversity, and evidence of change of organisms over time.

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:

4.L4U.11 - *Analyze and interpret environmental data to demonstrate that species either adapt and survive or go extinct over time.*

Earth and Space Science:

Students develop an understanding of how the Sun provides light and energy for Earth systems.

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

Physical Science:

Students develop an understanding of how Earth's resources can be transformed into different forms of energy.

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.*

Social Studies:

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.*

