

5th Grade Science Power Standards

1-4 Quarters:

Inquiry Process

- Make purposeful observations, generating questions, conducting investigations, manipulate simple tools, construct simple charts from data and observations.

Inquiry Analysis and Communication

- Share ideas through purposeful conversation, communicate and present findings of observations, gather information.

Reflection and Social Implications

- Reflect on knowledge, use evidence, application of science within society.

Forces in Motion

- Motion is the result of contact and non-contact forces.
- Constant motion is due to balanced forces.
- Objects that are at rest have balanced forces acting on them.
- Changes in motion and position are due to unbalanced forces.
- Forces and motion can be measured.

Objects in the Sky

- The relative position of the Earth, moon, and sun are responsible for the phases of the moon, eclipses, and ocean tides.
- Earth's rotation causes the day and night, and the tilt of the Earth on its axis within the rotation causes the seasons.
- The physical components of the planets are varied. The characteristics of the different planets are influenced by their location in relation to the sun.
- Objects in the sky move in regular and predictable patterns around the sun.

Systems and Survival

- Organisms are diverse in their physical and behavioral characteristics
- Physical traits (anatomical features) are used to classify organisms and infer the degree of relatedness.
- Plants and animals have physical and behavioral characteristics that help them to survive in their environment.
- Animal behavior can be inherited or learned.
- These body systems function together and contribute to the animal's survival and well being.
- As environments change over time, these characteristics may change (adaptations) to allow them to continue to survive or flourish in their environment.
- Fossils provide evidence that life forms have changed over time and were influenced by changes in environmental conditions including catastrophic events.