

Sixth Grade Earth and Space Science

Topics:

Space Systems – How does the Earth-sun-moon system cause eclipses and seasons? How does gravity work within galaxies and the solar system? Scale modeling of the solar system.

History of Earth – Describe the scientific evidence for geologic time scale? Describe how Earth process have shaped the Earth’s surface. Describe the scientific evidence for plate motion.

Earth’s Systems – Describe the cycling of Earth’s materials and energy. Describe how water cycles through Earth’s systems using energy from the sun and force of gravity.

Weather and Climate – Describe how complex interactions between and among air masses result in weather. Describe how local climates depend on unequal heating and Earth’s rotation.

Human Impacts - Design a method for reducing human impact on the environment.

General Guiding Directions:

Science is all around us. Take the opportunity to study the phenomena in your environment. A process Scientists could follow while investigating:

- Find a scientific phenomenon you are curious about and investigate by researching articles, videos, or simulations.
- Make a Claim: Think/Write before you investigate the phenomenon.
 - Make a Claim about what you think is happening during the Phenomenon.
- Provide Evidence: During and After you investigate the phenomenon.
 - During your research, find Evidence to support your Claim about the phenomenon.
 - Find examples of evidence to support your ideas about what is happening with phenomenon.
- Share your Reasoning:
 - Provide your Reasoning for why you linked your Claim about the phenomenon to the Evidence you shared.
 - Explain or Describe what you think is happening. Include your examples of evidence to support your explanation or description.
- Connections:
 - Give an example of how the phenomenon could connect, impact, matter, or relate to your life experiences in the past, present, or future.

Resources:

[PBS Learning for Middle Schoolers](#) -

MobyMax* – independent learning in Life Science topics

[National Geographic Kids Science](#) – Follow your child’s interests to build language and knowledge

[National Geographic Family](#) – Everything from support for talking to your kids about Coronavirus to Boredom Busters

[Epic!](#) – Enormous library of books including topics we've studied this year

Khan Academy* – informational videos in topics we've studied this year

Readworks.org – search for more information on topics we've studied this year

[Design Squad](#) – step by step support for leading kids in engineering projects

*Access through student's Clever log in