

Grade 6

Adopted 2018

Physical Sciences

- 1. Analyze and interpret data to show that changes in states of matter are caused by different rates of movement of atoms in solids, liquids, and gases (Kinetic Theory).** 6.P1U1.1
- 2. Plan and carry out an investigation to demonstrate that variations in temperature and/or pressure affect changes in state of matter.** 6.P1U1.2
- 3. Develop and use models to represent that matter is made up of smaller particles called atoms.** 6.P1U1.3
- 4. Develop and use a model to predict how forces act on objects at a distance.** 6.P2U1.4
- 5. Analyze how humans use technology to store (potential) and/or use (kinetic) energy.** 6.P4U2.5

Earth and Space Sciences

- 6. Investigate and construct an explanation demonstrating that radiation from the Sun provides energy and is absorbed to warm the Earth's surface and atmosphere.** 6.E1U1.6
- 7. Use ratios and proportions to analyze and interpret data related to scale, properties, and relationships among objects in our solar system.** 6.E2U1.7
- 8. Develop and use models to explain how constellations and other night sky patterns appear to move due to Earth's rotation and revolution.** 6.E2U1.8
- 9. Develop and use models to construct an explanation of how eclipses, moon phases, and tides occur within the Sun-Earth-Moon system.** 6.E2U1.9
- 10. Use a model to show how the tilt of Earth's axis causes variations in the length of the day and gives rise to seasons.** 6.E2U1.10

Life Sciences

- 11. Use evidence to construct an argument regarding the impact of human activities on the environment and how they positively and negatively affect the competition for energy and resources in ecosystems.** 6.L2U3.11
- 12. Engage in argument from evidence to support a claim about the factors that cause species to change and how humans can impact those factors.** 6.L2U3.12

13. Develop and use models to demonstrate the interdependence of organisms and their environment including biotic and abiotic factors. 6.L2U1.13

14. Construct a model that shows the cycling of matter and flow of energy in ecosystems. 6.L2U1.14