Arizona Science

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`