Arizona Science

Grade 5

Adopted 2018

Physical Sciences	1. **Analyze and interpret data to explain that matter of any type can be subdivided into particles too small to see and, in a closed system, if properties change or chemical reactions occur, the amount of matter stays the same.** 5.P1U1.1
	2. **Plan and carry out investigations to demonstrate that some substances combine to form new substances with different properties and others can be mixed without taking on new properties.** 5.P1U1.2
	3. **Construct an explanation using evidence to demonstrate that objects can affect other objects even when they are not touching.** 5.P2U1.3
	4. **Obtain, analyze, and communicate evidence of the effects that balanced and unbalanced forces have on the motion of objects.** 5.P3U1.4
	5. **Define problems and design solutions pertaining to force and motion.** 5.P3U2.5
	6. **Analyze and interpret data to determine how and where energy is transferred when objects move.** 5.P4U1.6
Earth and Space Sciences	7. **Develop, revise, and use models based on evidence to construct explanations about the movement of the Earth and Moon within our solar system.** 5.E2U1.7
	8. **Obtain, analyze, and communicate evidence to support an explanation that the gravitational force of Earth on objects is directed toward the planet's center.** 5.E2U1.8
Life Sciences	9. **Obtain, evaluate, and communicate information about patterns between the offspring of plants, and the offspring of animals (including humans); construct an explanation of how genetic information is passed from one generation to the next.** 5.L3U1.9
	10. **Construct an explanation based on evidence that the changes in an environment can affect the development of the traits in a population of organisms.** 5.L3U1.10
	11. **Obtain, evaluate, and communicate evidence about how natural and human-caused changes to habitats or climate can impact populations.** 5.L4U3.11
	12. **Construct an argument based on evidence that inherited characteristics can be affected by behavior and/or environmental conditions.** 5.L4U3.12