

Arizona Science Standards

Grade Level	Life Science Standards	Earth Science Standards	Physical Science Standards
Kindergarten	<p>K.L1U1.6 Obtain, evaluate, and communicate information about how organisms use different body parts for survival.</p> <p>K.L1U1.7 Observe, ask questions, and explain how specialized structures found on a variety of plants and animals (including humans) help them sense and respond to their environment.</p>		<p>K.P1U1.1 Sound is produced by vibrating objects and can make matter vibrate</p> <p>1.P1U1.1 Plan and conduct investigations to show that vibrating materials can make sound</p>
1st Grade		<p>1.E1U1.5 Obtain, evaluate, and communicate information about the properties of Earth materials and investigate how humans use natural resources in everyday life.</p>	<p>1.L2U2.7 Develop and use models about how living things use resources to grow and survive; design and evaluate habitats for organisms using earth materials.</p> <p>1.L2U1.8 Construct an explanation describing how organisms obtain resources from the environment including materials that are used again by other organisms.</p>
2nd Grade	<p>2.L2U1.9 Obtain, analyze, and communicate evidence that organisms need a source of energy, air, water, and certain temperature conditions to survive</p>		<p>2.P1U1.2 Analyze data to determine how sound varies in pitch and volume</p>
3rd Grade	<p>3.L1U1.5 Develop and use models to explain that plants and animals (including humans) have internal and external structures that serve various functions that aid in growth, survival, behavior, and reproduction.</p> <p>3.L1U1.6 Plan and carry out investigations to demonstrate ways plants and animals react to stimuli.</p>		
4th Grade	<p>4.L4U1.11 Analyze and interpret environmental data to demonstrate that species either adapt and survive or go extinct over time</p>	<p>4.E1U1.7 Develop and/or revise a model using various rock types, fossil location, and landforms to show evidence that Earth's surface has changed over time</p>	

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5th Grade	<p>5.L3U1.9 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.</p> <p>5.L3U1.10 Construct an explanation based on evidence that the changes in an environment can affect the development of the traits in a population of organisms.</p> <p>5.L4U3.11 Obtain, evaluate, and communicate evidence about how natural and human-caused changes to habitats or climate can impact populations.</p>		
6th Grade	<p>6.L2U3.12 Engage in argument from evidence to support a claim about the factors that cause species to change and how humans can impact those factors.</p> <p>6.L2U1.13 Develop and use models to demonstrate the interdependence of organisms and their environment including biotic and abiotic factors.</p> <p>6.L2U1.14 Construct a model that shows the cycling of matter and flow of energy in ecosystems.</p>		
7th Grade	<p>7.L1U1.8 Obtain, evaluate, and communicate information to provide evidence that all living things are made of cells, cells come from existing cells, and cells are the basic structural and functional unit of all living things.</p> <p>7.L1U1.9 Construct an explanation to demonstrate the relationship between major cell structures and cell functions (plant and animal).</p> <p>7.L1U1.10 Develop and use a model to explain how cells, tissues, and organ systems maintain life (animals).</p>		

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<p>8th Grade</p>	<p>5.L3U1.9 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.</p> <p>5.L3U1.10 Construct an explanation based on evidence that the changes in an environment can affect the development of the traits in a population of organisms.</p> <p>5.L4U3.11 Obtain, evaluate, and communicate evidence about how natural and human-caused changes to habitats or climate can impact populations.</p>		<p>8.P4U1.4 Develop and use mathematical models to explain wave characteristics and interactions.</p> <p>This includes understanding transverse waves, longitudinal waves, comparing amplitude, wavelength, frequency, and energy, which encompasses sound waves (a type of mechanical wave).</p> <p>8.P4U1.3 Construct an explanation on how energy can be transferred from one energy store to another.</p>
<p>High School</p>	<p>HS+B.L4U1.14 Construct an explanation based on scientific evidence that the process of natural selection can lead to adaptation.</p>	<p>HS.L2U3.18 Obtain, evaluate, and communicate about the positive and negative ethical, social, economic, and political implications of human activity on the biodiversity of an ecosystem.</p>	