

Alignment of BIOZONE's Biology for NGSS (3rd edition) to Idaho HS Earth and Space Science (April 2025)



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- Note 1: Correlation locations are activity numbers (not page numbers).
 - Note 2: Correlations do not usually include reference to the science practices chapter.
 - Note 3: Correlations to the standard statement include background material to address the specific objectives.

High School Earth and Space Science

Earth's Place in the Universe	Justification or Comments
<i>Students who demonstrate understanding can:</i>	
Develop a model based on evidence to illustrate the life span of the Sun and the role of nuclear fusion in the Sun's core to release energy that eventually reaches Earth in the form of radiation. (1.1)	Activity 26 Related activities (background) 12-24, 26
Construct an explanation of the current model of the origin of the universe based on astronomical evidence of light spectra, motion of distant galaxies, and composition of matter in the universe. (1.2)	Activity 12-17
Communicate scientific ideas about the way stars, over their life cycle, transform elements. (1.3)	Activities 22, 24 Related activities (background) 19, 20, 69
Use mathematical or computational representations to predict the motion of orbiting objects in the solar system. (1.4)	Activities 31, 32, 42 Related activities (background) 33-36
Evaluate evidence of the past and current movements of continental and oceanic crust and the theory of plate tectonics to explain the ages of crustal rocks. (1.5)	Activities 45, 53, 75 Related activities (background) 46-49, 71, 72
Apply scientific reasoning and evidence from ancient Earth materials, meteorites, and other planetary surfaces to construct an account of Earth's formation and early history. (1.6)	Activities 48, 49, 53 Related activities (background) 46, 47

Earth's Systems	Justification or Comments
<i>Students who demonstrate understanding can:</i>	
Develop a model to illustrate how Earth's internal and surface processes operate at different spatial and temporal scales to form continental and ocean-floor features. (2.1)	Activities 71, 75 Related activities (background) 59, 72
Analyze geoscience data to make the claim that one change to Earth's surface can create feedbacks that cause changes to other Earth systems. (2.2)	Activities 59, 64, 67 Related activities (background) 60-63, 65
Develop a model based on evidence of Earth's interior to describe the cycling of matter by thermal convection. (2.3)	Activities 72, 75 Related activities (background) 56, 69-72
Use a model to describe how variations in the flow of energy into and out of Earth's systems result in variations in climate. (2.4)	Activities 99, 101 Related activities (background) 39, 63-65, 67, 88, 89, 100
Plan and conduct an investigation of how the chemical and physical properties of water contribute to the mechanical and chemical mechanisms that affect Earth materials and surface processes. (2.5)	Activities 82, 83 Related activities (background) 77, 78, 80, 81, 85
Develop a model to describe the cycling of carbon among the hydrosphere, atmosphere, geosphere, and biosphere. (2.6)	Activities 98, 99, 102 Related activities (background) 92, 94, 98, 100, 101, 150
Construct an argument based on evidence about the simultaneous coevolution of Earth's systems and life on Earth. (2.7)	Activities 92-94 Related activities (background) 95, 96

Earth and Human Activity	Justification or Comments
<i>Students who demonstrate understanding can:</i>	
Construct an explanation based on evidence for how the availability of natural resources, occurrence of natural hazards, and changes in climate have influenced human activity. (3.1)	Activities 105-108, 123-125 Related activities (background) 104
Evaluate competing design solutions for developing, managing, and utilizing energy and mineral resources based on cost-benefit ratios. (3.2)	Activities 112, 121 Related activities (background) 108, 111, 114, 116, 119
Illustrate relationships among management of natural resources, the sustainability of human populations, and biodiversity. (3.3)	Activities 114-119, 136, 146
Evaluate or refine a scientific or technological solution that mitigates or enhances human influences on natural systems. (3.4)	Activities 137, 138, 144, 154 Related activities (background) 116, 119, 143
Analyze geoscience data and the results from global climate models to make an evidence-based explanation of how climate variability can affect Earth's systems on a global and regional scale. (3.5)	Activities 150, 156 Related activities (background) 148, 149
Communicate how relationships among Earth systems are being influenced by human activity. (3.6)	Activities 101 Related activities (background) 99, 100, 150, 151, 156