Kentucky Alternate Assessment



Kentucky Academic Standards

Alternate Assessment Targets

Grade 11 Science

DOMAIN	Standard	Target
	Earth Science	
Sci 11.1 Test Window 1	Kentucky Academic Standard : Plan and conduct an investigation of the properties of water and its effects on Earth materials and surface processes. [Clarification Statement: Emphasis is on mechanical and chemical investigations with water and a variety of solid materials to provide evidence for the connections between the hydrologic cycle and system interactions commonly known as the rock cycle. Examples of mechanical investigations include stream transportation and deposition using a stream table, erosion using variations in soil moisture content, and frost wedging by the expansion of water as it freezes. Examples of chemical investigations include chemical weathering and recrystallization (by testing the solubility of different materials) or melt generation (by examining how water lowers the melting temperature of moist solids).] HS-ESS2-5	Alternate Assessment Target: Use evidence from an investigation to explain the interaction between the properties of water (e.g. expansion when freezes, high specific heat, capacity to absorb or release heat, water as a solvent, ability to transport materials) and its effects on Earth's materials and surface processes. EARTH SCIENCE PROGRESSION
	Life Science	
Sci HS11.2 Life Science 1 Test Window 1	Kentucky Academic Standard : Evaluate the evidence supporting claims that changes in environmental conditions may result in: (1) increases in the number of individuals and some species, (2) the emergence of new species over time, and (3) extinction of other species. [Clarification Statement: Emphasis is on determining cause and effect relationships for how changes to the environment such as deforestation, fishing, application of fertilizers, drought, flood, and the rate of change of the environment affect the distribution or disappearance of traits in species.] HS-LS4-5	Alternate Assessment Target: Evaluate evidence that supports the claim that changes to the environment (e.g. deforestation, fishing, drought, and flood) affect the distribution or disappearance of traits in species which may result in: (1) increases in the number of individuals of some species, (2) the emergence of new species over time and (3) extinction of other species. LIFE SCIENCE 1 PROGRESSION
Sci HS11.4 Life Science 2 Test Window 2	Kentucky Academic Standard : Evaluate the claims, evidence, and reasoning that the complex interactions in ecosystems maintain relatively consistent numbers and types of organisms in stable conditions, but changing conditions may result in a new ecosystem. [Clarification Statement: Examples of changes in ecosystem conditions could include modest biological or physical changes,	Alternate Assessment Target: Evaluate evidence that interactions in ecosystems remain relatively consistent over time in stable conditions (in terms of numbers and types of organisms), but ecosystems can change as a result of disruptions (e.g. farming, hunting, flooding,

Sci HS11.3 Physical Science 2	such as moderate hunting or a seasonal flood, and extreme changes, such as volcanic eruption or a sea-level rise.] HS-LS2-6 Physical Science Kentucky Academic Standard : Apply scientific and engineering ideas to design, evaluate, and refine a device that minimizes the	fire, or volcanic eruption) that are moderate to extreme. LIFE SCIENCE 2 PROGRESSION Alternate Assessment Target: Evaluate the design of a
Physical	Physical Science Kentucky Academic Standard : Apply scientific and engineering ideas to design, evaluate, and refine a device that minimizes the	LIFE SCIENCE 2 PROGRESSION Alternate Assessment Target: Evaluate the design of a
Physical	Kentucky Academic Standard : Apply scientific and engineering ideas to design, evaluate, and refine a device that minimizes the	Alternate Assessment Target: Evaluate the design of a
Physical	Kentucky Academic Standard : Apply scientific and engineering ideas to design, evaluate, and refine a device that minimizes the	Alternate Assessment Target: Evaluate the design of a
Physical	Kentucky Academic Standard : Apply scientific and engineering ideas to design, evaluate, and refine a device that minimizes the	
Physical	ideas to design, evaluate, and refine a device that minimizes the	
,		device that using the fease on an effect during a
Science 2		device that minimizes the force on an object during a
Science 2	force on a macroscopic object during a collision. [Clarification	collision and make suggestions for improvement.
Test	Statement: Examples of evaluation and refinement could include	
Window 1	determining the success of a device at protecting an object from	PHYSICAL SCIENCE 2 PROGRESSION
	damage and modifying the design to improve it. Examples of a	
	device could include a football helmet or a parachute.] HS-PS2-3	
Sci HS11.6	Kentucky Academic Standard : Construct and revise an explanation	Alternate Assessment Target: Construct an explanation
Physical	for the outcome of a simple chemical reaction based on the	for the outcome of a simple chemical reaction (specific
Science 1	outermost electron states of atoms, trends in the periodic table,	to elements in families 1, 2, and 13-18) based on the
Test	and knowledge of the patterns of chemical properties.	outermost electron states of atoms and trends in the
Window 2	[Clarification Statement: Examples of chemical reactions could	periodic table.
window z	include the reaction of sodium and chlorine, carbon and oxygen, or	
	carbon and hydrogen.] HS-PS1-2	PHYSICAL SCIENCE 1 PROGRESSION
	Engineering and Technology	
Sci HS11.5	Kentucky Academic Standard : Evaluate a solution to a complex	Alternate Assessment Target: Evaluate a solution to a
Engineering	real-world problem based on prioritized criteria and trade-offs that	real-world problem based on criteria and trade-offs
and	account for a range of constraints, including cost, safety, reliability,	that account for a range of constraints including cost,
Technology	and aesthetics, as well as possible social, cultural and	safety, reliability, as well as social and environmental
Test	environmental impacts. HS-ETS1-3	impacts.
Window 2	h	•
window Z		ENGINEERING AND TECHNOLOGY PROGRESSION