Grade Level/Content Area	Alternate K-PREP Aligned to KAS for Science	KAS Standard
Grade 4 Science	**(Sci. 4.1)** **Make observations and/or use measurements to provide evidence of the effects of weathering and the rate of erosion by water, ice, wind, or vegetation.** **LINK TO EARTH SCIENCE PROGRESSION** **Earth Science**	4-ESS2-1: Make observations and/or measurements to provide evidence of the effects of weathering or the rate of erosion by water, ice, wind, or vegetation. [Clarification Statement: Examples of variables to test could include angle of slope in the downhill movement of water, amount of vegetation, speed of wind, relative rate of deposition, cycles of freezing and thawing of water, cycles of heating and cooling, and volume of water flow.] Earth Science
	(Sci. 4.2) **Use models to identify patterns of change and describe how organisms (plants and animals) have different life cycles but all have in common: birth, growth, reproduction (needed for continued existence of every kind of organism) and death.** **LINK TO LIFE SCIENCE 1 PROGRESSION**	3-LS1-1: Develop models to describe that organisms have unique and diverse life cycles but all have in common; birth, growth, reproduction, and death. [Clarification Statement: Changes organisms go through during their life form a pattern.] **Life Science 1**

	Life Science 1	
	(Sci. 4.3) **Make observations and/or use measurements of an object's motion to provide evidence that patterns can be used to predict future motion.** **LINK TO PHYSICAL SCIENCE 2 PROGRESSION** **Physical Science 2**	3-PS2-2: Make observations and/or measurements of an object's motion to provide evidence that a pattern can be used to predict future motion. [Clarification Statement: Examples of motion with a predictable pattern could include a child swinging in a swing, a ball rolling back and forth in a bowl, and two children on a seesaw.] **Physical Science 2**
	(Sci. 4.4) **Support an argument with evidence that in a particular habitat some organisms can survive well, while other organisms struggle, or may even die.** **LINK TO LIFE SCIENCE 2 PROGRESSION** **Life Science 2**	3-LS4-3: Construct an argument with evidence that in a particular habitat some organisms can survive well, some survive less well, and some cannot survive at all. [Clarification Statement: Examples of evidence could include the needs and characteristics of the organisms and habitats involved. The organisms and their habitats make up a system in which the parts depend on each other.]

		Life Science 2
	(Sci. 4.5) **Define a simple design problem reflecting a need or a want with criteria for success and constraints (limits) on materials, time or cost.** **LINK TO ENGINEERING AND TECHNOLOGY PROGRESSION** **Engineering and Technology**	3-5-ETS1-1: Define a simple design problem reflecting a need or a want that includes specified criteria for success and constraints on materials, time, or cost. **Engineering and Technology**
	(Sci. 4.6) **Make observations (could include looking for patterns) to describe and classify different kinds of materials by their observable properties.** **LINK TO PHYSICAL SCIENCE 1 PROGRESSION** **Physical Science 1**	2-PS1-1: Plan and conduct an investigation to describe and classify different kinds of materials by their observable properties. [Clarification Statement: Observations could include color, texture, hardness, and flexibility. Patterns could include the similar properties that different materials share.] **Physical Science 1**

LINK TO SCIENCE PROGRESSIONS: http://education.ky.gov/AA/Assessments/kprep/Pages/AltResources.aspx

Blue: Standards 1 through 3 (TEST WINDOW 1)
Yellow: Standards 4 through 6 (TEST WINDOW 2)