

Arkansas Science / Project Learning Tree Correlations -- 2005 Frameworks

FIFTH GRADE

Correlations Levels

☺ Moderate correlation – activity may be used to enhance other activities, but should not be a stand-alone lesson

☺ ☺ Strong correlation – activity may be used as a stand-alone to teach the concept

Strand: 2 Life Science **Standard 2: Living Systems: Characteristics, Structure, and Function -- Students shall demonstrate and apply knowledge of living systems using appropriate safety procedures, equipment, and technology**

		PLT Activity Number	Name	Level
Structure and Function	LS.2.5.6 Conduct investigations to separate plant pigments from the cell	78	Signs of Fall	☺ ☺
	LS.2.5.7 Identify the role of chlorophyll in the process of photosynthesis	28	Air Plants	☺
		42	Sunlight and Shades of Green	☺
		63	Tree Factory	☺

Standard 4: Populations and Ecosystems -- Students shall demonstrate and apply knowledge of populations and ecosystems using appropriate safety procedures, equipment, and technology				
Populations and Ecosystems	LS.4.5.3 Design food webs in specific habitats to show the flow of energy within communities: terrestrial, aquatic	45	Web of Life	☺ ☺
	LS.4.5.4 Evaluate food webs under conditions of stress: overgrazing, overpopulation, natural disaster, introduction of non-native species, human impact/urban development	45	Web of Life	☺ ☺
	LS.4.5.5 Examine the role of limiting factors on the carrying capacity of an ecosystem: food, space, water, shelter	27	Every Tree for Itself	☺ ☺
		77	Trees in Trouble	☺
		88	Life on the Edge	☺
LS.4.5.9 Conduct investigations demonstrating the role of the carbon dioxide-	28	Air Plants	☺	

	oxygen cycle in ecosystems			
	LS.4.5.10 Analyze the concept of conservation of mass as related to the amount of matter in an ecosystem	44	Water Wonders	☺
	LS.4.5.14 Categorize organisms by the function they serve in ecosystems and food webs: predator, prey, parasitism, producer, consumer, decomposer, scavenger, herbivore, carnivore, omnivore	23	The Fallen Log	☺ ☺
		24	Nature's Recyclers	☺
		26	Dynamic Duos	☺
	LS.4.5.15 Conduct field studies identifying and categorizing organisms in a given area of an ecosystem	8	The Forest of S.T. Shrew	☺
		80	Nothing Succeeds Like Succession	☺
	LS.4.5.16 Evaluate positive and negative human effects on ecosystems	12	Invasive Species	☺
		19	Viewpoints on the Line	☺ ☺
		26	Dynamic Duos	☺
		31	Plant A Tree	☺
		32	A Forest of Many Uses	☺
		33	Forest Consequences	☺
		49	Tropical Treehouse	☺

		50	400-Acre Wood	☺ ☺
		71	Watch on Wetlands	☺
		80	Nothing Succeeds Like Succession	☺
		88	Life on the Edge	☺
		89	Trees for Many Reasons	☺
		94	By the Rivers of Babylon	☺
	LS.4.5.17 Describe and illustrate various symbiotic relationships: <i>parasitism, mutualism, commensalisms</i>	26	Dynamic Duos	☺
Strand 3: Physical Science	Standard 5: Matter: Properties and Changes -- Students shall demonstrate and apply knowledge of matter, including properties and changes, using appropriate safety procedures, equipment, and technology			
Properties of Matter	PS.5.5.3 Identify common examples of physical properties: length, mass, area, perimeter, texture, taste, odor, color, elasticity	61	The Closer You Look	☺
	PS.5.5.6 Explain how heat influences the states of matter of a substance: solid, liquid, gas, plasma	81	Living With Fire	☺