

Arkansas Science / Project Learning Tree Correlations – 2005 Frameworks

SEVENTH 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 4: Populations and Ecosystems – Students shall demonstrate and apply knowledge of populations and ecosystems using appropriate safety procedures, equipment, and technology**

		PLT Activity Number	Name	Level
Populations and Ecosystems	LS.4.7.1 Explain the role of reproduction in the continuation of a species	43	Have Seeds, Will Travel	☺
		79	Tree Lifecycle	☺

Strand 3: Physical Science **Standard 7: Energy and Transfer of Energy -- Students shall demonstrate and apply knowledge of energy and transfer of energy using appropriate safety procedures, equipment, and technology**

Energy	PS.7.7.1 Identify natural resources used to supply energy needs	39	Energy Sleuths	☺
	PS.7.7.2 Describe alternatives to the use of fossil fuels: solar energy, geothermal energy, wind, hydroelectric power,	39	Energy Sleuths	☺

	nuclear energy, biomass			
Strand 4: Earth and Space Science	Standard 8: Earth Systems -- Students shall demonstrate and apply knowledge of Earth's structure and properties using appropriate safety procedures, equipment, and technology			
Structure and Properties	ESS.8.7.1 Describe the composition and physical characteristics of the atmosphere	84	Global Climate	☺
	ESS.8.7.3 Conduct investigations demonstrating the effects of solar energy on the atmosphere	84	Global Climate	☺
	ESS.8.7.4 Investigate the effect that oceans have on climate	84	Global Climate	☺
	ESS.8.7.5 Identify elements of weather: Temperature, air pressure wind speed, wind direction humidity	84	Global Climate	☺
	ESS.8.7.11	84	Global Climate	☺

	Describe and map climates of major Earth regions			
	ESS.8.7.13 Identify and explain the effects that human activities have on weather and atmosphere	72	Air We Breathe	☺
		84	Global Climate	☺
	ESS.8.7.14 Describe causes and effects of acid precipitation	72	Air We Breathe	☺
Cycles	ESS.8.7.16 Conduct investigations demonstrating the water cycle	44	Water Wonders	☺ ☺
	ESS.8.7.17 Explain the relationship between the water cycle and ground water	44	Water Wonders	☺ ☺
	ESS.8.7.19 Conduct investigations demonstrating the greenhouse effect	84	Global Climate	☺
	ESS.8.7.20 Research how human activities may contribute	84	Global Climate	☺

	to global warming			
	ESS.8.7.21 Explain examples of actual events that cause temporary climate changes: volcanic dust, drought, meteor impact	84	Global Climate	☺