Alignment of Project Learning Tree Curriculum

to the

History/Social Science Content Standards for California Public Schools and the

California Education and the Environment Initiative's Environmental Principles and Concepts and Curriculum Units

For more information about Project Learning Tree, contact Kay Antunez, California Department of Forestry and Fire Protection at (916) 653-7958 or Kay. Antunez@fire.ca.gov For information about the Education and the Environment Inititative, please visit www.calepa.ca.gov/education/eei

Introduction:

The purpose of this document is to provide California educators who use Project Learning Tree materials with an easy cross reference to the grade and academic standards that aligns with California environmental principles and concepts and the Education and the Environmental (EEI) units that were developed to teach them. The EEI units were developed in support the mandate described in Assembly Bill 1548 (Pavley, Chapter 665, Statutes of 2003 and AB 1721 and Pavley, Chapter 581, Statutes of 2005) called the "Education and the Environment Initiative (EEI). Information about the EEI can be obtained at: http://www.calepa.ca.gov/Education/EEI.

This alignment was originally developed and reviewed by a team of Project Learning Tree partners. A biographical list of those participating in the alignment project appears a the end of this document. Funding was provided by the United States Environmental Protection Agency, Office of Environmental Education under agreement number NT-83272501-1 between the U.S. EPA and the University of Wisconsin-Stevens Point, the American Forest Foundation and the California Community Forests Foundation. Additional support was provided by the California Department of Forestry and Fire Protection. The contents of this document do not necessarily reflect the views and policies of the United States Environmental Protection Agency or The Board of Regents of the University of Wisconsin System, nor does mention of trade names or commercial products constitute endorsement or recommendation for use. Educators may photocopy these materials for the non-commercial purpose of educational advancement.

June 2010

Academic Content Standards	California Environmental Principles and Concepts	Project Learning Tree Activities	California Education and the Environment Initiative Curriculum Units
-	Kindergarten		•
K.4. Students compare and contrast the locations of pe	ople, places, and environments and describe their chara	acteristics.	
5. Demonstrate familiarity with the school's layout, environs, and the jobs people do there.	II. The long term functioning and health of terrestrial, freshwater, coastal and marine ecosystems are influenced by their relationships with human societies. CONCEPT A: Students need to know that direct and indirect changes to natural systems due to the growth of human populations and their consumption rates influence the geographic extent, composition, biological diversity, and viability of natural systems.	Schoolyard Safari (46); Plan an Ideal Community (55 variation); People, Places, Things (74)	Some Things Change and Some Things Stay the Same
K.6. Students understand that history relates to events	, people, and places of other times.		
3. Understand how people lived in earlier times and how their lives would be different today (e.g., getting water from a well, growing food, making clothing, having fun, forming organizations, living by rules and laws).	II. The long term functioning and health of terrestrial, freshwater, coastal and marine ecosystems are influenced by their relationships with human societies. CONCEPT A: Students need to know that direct and indirect changes to natural systems due to the growth of human populations and their consumption rates influence the geographic extent, composition, biological diversity, and viability of natural systems.	Did you Notice? (95-var)	Some Things Change and Some Things Stay the Same
	1st Grade: A Child's Place in	Time & Space	
1.2. Students compare and contrast the absolute and re	elative locations of places and people and describe the p	physical and/or human characteristics of places.	
4. Describe how location, weather, and physical environment affect the way people live, including the effects on their food, clothing, shelter, transportation, and recreation.	III. Natural systems proceed through cycles and processes that humans depend upon, benefit from and can alter. CONCEPT B: Students need to know that human practices depend upon and benefit from the cycles and processes that operate within natural systems. CONCEPT C: Students need to know that human practices can alter the cycles and processes that operate within natural systems.		People and Places
1.4. Students compare and contrast everyday life in dif	ferent times and places around the world and recognize	that some aspects of people, places, and things cha	ange over time while others stay the same.
Study transportation methods of earlier days.	I. The continuation and health of individual human lives and of human communities and societies depend on the health of the natural systems that provide essential goods and ecosystem services. CONCEPT A: Students need to know that the goods produced by natural systems are essential to human life and to the functioning of our economies and cultures. CONCEPT B: Students need to know that the ecosystem services produced by natural systems are essential to human life and to the functioning of our economies and cultures.	On the Move -var (53);Did you Notice? (95)	On the Move

	2nd Grade: People Who Mal	ke A Difference	
2.2. Students demonstrate map skills by describing the	absolute and relative locations of people, places, and en	nvironments.	
Compare and contrast basic land use in urban, suburban, and rural environments in California.	II. The long term functioning and health of terrestrial, freshwater, coastal and marine ecosystems are influenced by their relationships with human societies. CONCEPT C: Students need to know that the expansion and operation of huiman communities are influences the geographic extent, composition, biological diversity, and viability of natural systems.	Did You Notice (95)	California's Lands - Then and Now
2.4. Students understand basic economic concepts and	their individual roles in the economy and demonstrate	basic economic reasoning skills.	
Describe food production and consumption long ago and today, including the roles of farmers, processors, distributors, weather, and land and water resources.	freshwater, coastal and marine ecosystems are influenced by their relationships with human societies. CONCEPT A: Students need to know that direct and indirect changes to natural systems due to the growth of human populations and their consumption rates influence the geographic extent, composition, biological diversity, and viability of natural systems. CONCEPT B: Students need to know that the methods used to extract, harvest, transport, and consume natural resources influence the geographic extent, composition, biological diversity, and viability of natural resources.	Many Uses (31); Trees for Many Reasons (89)	
Understand the role and interdependence of buyers (consumers) and sellers (producers) of goods and services.	I. The continuation and health of individual human lives and of human communities and societies depend on the health of the natural systems that provide essential goods and ecosystem services. CONCEPT C: Students need to know that the quality, quantity, and reliability of the goods and ecosystem services provided by natural resources are directly affected by the health of those systems.	Three Cheers for Trees (30); A Forest of Many Uses (32); A Tree for Many Reasons (89)	The Dollars and Sense of Food Production
Understand how limits on resources affect production and consumption (what to produce and what to consume).	I. The continuation and health of individual human lives and of human communities and societies depend on the health of the natural systems that provide essential goods and ecosystem services. CONCEPT C: Students need to know that the quality, quantity, and reliability of the goods and ecosystem services provided by natural resources are directly affected by the health of those systems.	A Few of My Favorite Things (15); Three Cheers for Trees (30); A Forest of Many Uses (32); Trees for Many Reasons (89)	The Dollars and Sense of Food Production

	3rd Grade: Continuity a	nd Change	
1. Students describe the physical and human geogra	phy and use maps, tables, graphs, photographs, and cha	rts to organize information about people, places, a	nd environments in a spatial context.
		_	
Identify geographical features in their local region (e.g.,	I. The continuation and health of individual human lives and of	Environmental Exchange Box (20-a)	The Geography of Where
deserts, mountains, valleys, hills, coastal areas, oceans,	human communities and societies depend on the health of		
lakes).	the natural systems that provide essential goods and		
	ecosystem services. CONCEPT A: Students need to know that		
	the goods produced by natural systems are essential to		
	human life and to the functioning of our economies and		
	cultures. CONCEPT B: Students need to know that the		
	ecosystem services produced by natural systems are essential		
	to human life and to the functioning of our economies and		
	cultures.		
2. Trace the ways in which people have used the resources	I. The continuation and health of individual human lives and o	Who Works in this Forest? (34); People, Places,	The Geography of Where
of the local region and modified the physical environment	human communities and societies depend on the health of	Things (74)	
(e.g., a dam constructed upstream changed a river or	the natural systems that provide essential goods and		
coastline).	ecosystem services. CONCEPT A: Students need to know that		
	the goods produced by natural systems are essential to		
	human life and to the functioning of our economies and		
	cultures. CONCEPT B: Students need to know that the		
	ecosystem services produced by natural systems are essential		
	to human life and to the functioning of our economies and		
	cultures.		
2. Students describe the American Indian nations in	their local region long ago and in the recent past.		
2. Discuss the ways in which physical geography, including	I. The continuation and health of individual human lives and of		California Indian People-Exploring Trib
climate, influenced how the local Indian nations adapted to	human communities and societies depend on the health of		Regions
their natural environment (e.g., how they obtained food,	the natural systems that provide essential goods and		
clothing, tools).	ecosystem services. CONCEPT A: Students need to know that		
	the goods produced by natural systems are essential to		
	human life and to the functioning of our economies and		
	cultures. CONCEPT B: Students need to know that the		
	ecosystem services produced by natural systems are essential		
	to human life and to the functioning of our economies and		
Students demonstrate basis economic reasoning s	cultures. kills and an understanding of the economy of the local r	ogion	
-			
Describe the ways in which local producers have used and	I. The continuation and health of individual human lives and of		California's Economy - Natural Choices
are using natural resources, human resources, and capital	human communities and societies depend on the health of	(32); Then and Now (40)	
resources to produce goods and services in the past and the	the natural systems that provide essential goods and		
present.	ecosystem services. CONCEPT A: Students need to know that		
	the goods produced by natural systems are essential to		
	human life and to the functioning of our economies and		
	cultures. CONCEPT B: Students need to know that the		
	ecosystem services produced by natural systems are essential		
	to human life and to the functioning of our economies and		

Understand that some goods are made locally, some elsewhere in the United States, and some abroad.	the natural systems that provide essential goods and ecosystem services. CONCEPT A: Students need to know that the goods produced by natural systems are essential to human life and to the functioning of our economies and cultures. CONCEPT B: Students need to know that the ecosystem services produced by natural systems are essential to human life and to the functioning of our economies and cultures.	Box (20); A Forest of Many Uses (32);	California's Economy - Natural Choices
Understand that individual economic choices involve trade-offs and the evaluation of benefits and costs.	I. The continuation and health of individual human lives and of human communities and societies depend on the health of the natural systems that provide essential goods and ecosystem services. CONCEPT A: Students need to know that the goods produced by natural systems are essential to human life and to the functioning of our economies and cultures. CONCEPT B: Students need to know that the ecosystem services produced by natural systems are essential to human life and to the functioning of our economies and cultures.	A Forest of Many Uses-part A (32); Trees for Many Uses (89)	California's Economy - Natural Choices
4.1 Students demonstrate an understanding of the ph	4th Grade: California: A Ch		
Identify the state capital and describe the various regions of California, including how their characteristics and physical environments (e.g., water, landforms, vegetation, climate) affect human activity.	ysical and human geographic features that define places The continuation and health of individual human lives and of human communities and societies depend on the health of the natural systems that provide essential goods and ecosystem services. CONCEPT A: Students need to know that the goods produced by natural systems are essential to human life and to the functioning of our economies and cultures. CONCEPT B: Students need to know that the ecosystem services produced by natural systems are essential 		Reflections of Where We Live
	to human life and to the functioning of our economies and cultures.		

Students describe the social, political, cultural, and	economic life and interactions among people of Califor	nia from the pre-Columbian societies to the Spanis	h mission and Mexican rancho periods.
Discuss the major nations of California Indians, including	I. The continuation and health of individual human lives and of		California Indian People and Managing
their geographic distribution, economic activities, legends,		Way (90)	Natural Resources
and religious beliefs; and describe how they depended on,	the natural systems that provide essential goods and		
adapted to, and modified the physical environment by	ecosystem services. CONCEPT A: Students need to know that		
cultivation of land a	the goods produced by natural systems are essential to		
	human life and to the functioning of our economies and		
	cultures. CONCEPT B: Students need to know that the		
	ecosystem services produced by natural systems are essential		
	to human life and to the functioning of our economies and		
	cultures. CONCEPT C: Students need to know that the quality,		
	quantity, and reliability of the goods and ecosystem services		
	provided by natural systems are directly affected by the		
	health of those systems.		
6. Discuss the role of the Franciscans in changing the	II. The long-term functinioning and health of terrestrial,		Cultivating California
economy of California from a hunter-gatherer economy to	freshwater, coastal, and marine ecosystems are influenced by		
an agricultural economy.	their relationships with human societies. CONCEPT B:		
	Students need to know that methods used to extract, harvest,		
	transport and consume natureal resources influence the		
	geographhic extent, composition, biological diversity, and		
	viability of natural systems. CONCEPT C: Students need to		
	know that the expansion and operation of human		
	communities influences the geographic extent, composition,		
	biological diversity, and viability of natural systems. CONCEPT		
	D: Students need to know that the legal, economic, and		
	political sysgtems that govern the use and managemenet of		
	natural systems directly influence the geographic extent,		
	composition, biological diversity, and viability of natural		
	systems.		
Students explain the economic, social, and political	life in California from the establishment of the Bear Fla	ig Republic through the Mexican-American War, th	e Gold Rush, and the granting of stateno
3. Analyze the effects of the Gold Rush on settlements, daily	II. The long term functioning and health of terrestrial,		Boom with a View: Witnessing the Go
			boom with a view. Withessing the do
ife, politics, and the physical environment (e.g., using	freshwater, coastal and marine ecosystems are influenced by		Rush
	freshwater, coastal and marine ecosystems are influenced by their relationships with human societies. CONCEPT A:		_
piographies of John Sutter, Mariano Guadalupe Vallejo,			-
life, politics, and the physical environment (e.g., using biographies of John Sutter, Mariano Guadalupe Vallejo, Louise Clapp).	their relationships with human societies. CONCEPT A:		_
biographies of John Sutter, Mariano Guadalupe Vallejo,	their relationships with human societies. CONCEPT A: Students need to know that direct and indirect changes to		_
biographies of John Sutter, Mariano Guadalupe Vallejo,	their relationships with human societies. CONCEPT A: Students need to know that direct and indirect changes to natural systems due to the growth of human populations and		-
biographies of John Sutter, Mariano Guadalupe Vallejo,	their relationships with human societies. CONCEPT A: Students need to know that direct and indirect changes to natural systems due to the growth of human populations and their consumption rates influence the geographic extent,		-
piographies of John Sutter, Mariano Guadalupe Vallejo,	their relationships with human societies. CONCEPT A: Students need to know that direct and indirect changes to natural systems due to the growth of human populations and their consumption rates influence the geographic extent, composition, biological diversity, and viability of natural		-
piographies of John Sutter, Mariano Guadalupe Vallejo,	their relationships with human societies. CONCEPT A: Students need to know that direct and indirect changes to natural systems due to the growth of human populations and their consumption rates influence the geographic extent, composition, biological diversity, and viability of natural systems. CONCEPT B: Students need to know that the		_
biographies of John Sutter, Mariano Guadalupe Vallejo,	their relationships with human societies. CONCEPT A: Students need to know that direct and indirect changes to natural systems due to the growth of human populations and their consumption rates influence the geographic extent, composition, biological diversity, and viability of natural systems. CONCEPT B: Students need to know that the methods used to extract, harvest, transport, and consume		_
biographies of John Sutter, Mariano Guadalupe Vallejo,	their relationships with human societies. CONCEPT A: Students need to know that direct and indirect changes to natural systems due to the growth of human populations and their consumption rates influence the geographic extent, composition, biological diversity, and viability of natural systems. CONCEPT B: Students need to know that the methods used to extract, harvest, transport, and consume natural resources influence the geographic extent,		_
biographies of John Sutter, Mariano Guadalupe Vallejo,	their relationships with human societies. CONCEPT A: Students need to know that direct and indirect changes to natural systems due to the growth of human populations and their consumption rates influence the geographic extent, composition, biological diversity, and viability of natural systems. CONCEPT B: Students need to know that the methods used to extract, harvest, transport, and consume natural resources influence the geographic extent, composition, biological diversity, and viability of natural		-
biographies of John Sutter, Mariano Guadalupe Vallejo,	their relationships with human societies. CONCEPT A: Students need to know that direct and indirect changes to natural systems due to the growth of human populations and their consumption rates influence the geographic extent, composition, biological diversity, and viability of natural systems. CONCEPT B: Students need to know that the methods used to extract, harvest, transport, and consume natural resources influence the geographic extent, composition, biological diversity, and viability of natural resources. CONCEPT C: Students need to know that the		-
biographies of John Sutter, Mariano Guadalupe Vallejo,	their relationships with human societies. CONCEPT A: Students need to know that direct and indirect changes to natural systems due to the growth of human populations and their consumption rates influence the geographic extent, composition, biological diversity, and viability of natural systems. CONCEPT B: Students need to know that the methods used to extract, harvest, transport, and consume natural resources influence the geographic extent, composition, biological diversity, and viability of natural resources. CONCEPT C: Students need to know that the expansionand operation of human communities influences		-
biographies of John Sutter, Mariano Guadalupe Vallejo,	their relationships with human societies. CONCEPT A: Students need to know that direct and indirect changes to natural systems due to the growth of human populations and their consumption rates influence the geographic extent, composition, biological diversity, and viability of natural systems. CONCEPT B: Students need to know that the methods used to extract, harvest, transport, and consume natural resources influence the geographic extent, composition, biological diversity, and viability of natural resources. CONCEPT C: Students need to know that the expansionand operation of human communities influences the geographic extent, composition, biological diversity, and		_
biographies of John Sutter, Mariano Guadalupe Vallejo,	their relationships with human societies. CONCEPT A: Students need to know that direct and indirect changes to natural systems due to the growth of human populations and their consumption rates influence the geographic extent, composition, biological diversity, and viability of natural systems. CONCEPT B: Students need to know that the methods used to extract, harvest, transport, and consume natural resources influence the geographic extent, composition, biological diversity, and viability of natural resources. CONCEPT C: Students need to know that the expansionand operation of human communities influences the geographic extent, composition, biological diversity, and viability of natural systems. CONCEPT D: Students need to know that the legal, economic, and political systems that		-
biographies of John Sutter, Mariano Guadalupe Vallejo,	their relationships with human societies. CONCEPT A: Students need to know that direct and indirect changes to natural systems due to the growth of human populations and their consumption rates influence the geographic extent, composition, biological diversity, and viability of natural systems. CONCEPT B: Students need to know that the methods used to extract, harvest, transport, and consume natural resources influence the geographic extent, composition, biological diversity, and viability of natural resources. CONCEPT C: Students need to know that the expansionand operation of human communities influences the geographic extent, composition, biological diversity, and viability of natural systems. CONCEPT D: Students need to		-

	5th Grade: United States History and Geog	graphy: Making a New Nation	
5.4. Students understand the political, religious, social, a	and economic institutions that evolved in the colonial e	era.	
 Understand the influence of location and physical setting on the founding of the original 13 colonies, and identify on a map the locations of the colonies and of the American Indian nations already inhabiting these areas. 	V. Decisions affecting resources and natural systems are based on a wide range of considerations and decision-making processes. CONCEPT A: Students need to know the spectrum of what is considered in making decisions about resources and natural sytems and how those factors influence decisions.		Human Settlement and the Natural Regions of the Eastern Seaboard
5.8. Students trace the colonization, immigration, and so political geography, and transportation systems. 4. Discuss the experiences of settlers on the overland trails	ettlement patterns of the American people from 1789 f V. Decisions affecting resources and natural systems are	to the mid-1800s, with emphasis on the role of eco	nomic incentives, effects of the physical and
to the West (e.g., location of the routes; purpose of the journeys; the influence of the terrain, rivers, vegetation, and climate; life in the territories at the end of these trails).	based on a wide range of considerations and decision-making processes. CONCEPT A: Students need to know the spectrum of what is considered in making decisions about resources and natural sytems and how these influence decisions. CONCEPT	, , ,	and Settlers Experience the American Wes
	B: Students need to know the process of making decisions about resources and natural systems, and how the assessment of social, economic, political, and environmental factors has changed over time.		

	6th Grade: World History and Geogra			
L. Students describe what is known through archaeological studies of the early physical and cultural development of humankind from the Paleolithic era to the agricultural revolution.				
Describe the hunter-gatherer societies, including the development of tools and the use of fire.	II. The long-term functioning and health of terrestrial, freshwater, coastal, and marine ecoystems are influenced by their relationships with human societies. CONCEPT B: Students need to know that methods used to extract, harvest, tranport, and consume natural resources influence the geographical extent, composition, biological diversity, and viability of natural systems. CONCEPT C: Students need to know that the expansion and operation of human communities influences the geographic extent, composition, biological diversity, and viability of natural systems.	People of the Forest (17)	Paleolithic People: Tools, Tasks, and Fir	
Identify the locations of human communities that populated the major regions of the world and describe how humans adapted to a variety of environments.	Ill. Natural systems proceed tghrough cycles that humans depend upon, benefit from, and can alter. change in ways that people benefit from and can influence. CONCEPT B: Students need to know that human practices depend upon and benefit from the cycles and processes that operate within natural systems.	People of the Forest (17)	Paleolithic People: Adapting to Change	
. Students analyze the geographic, political, econom	ic, religious, and social structures of the early civilization	ns of Mesopotamia, Egypt, and Kush.	•	
Locate and describe the major river systems and discuss the physical settings that supported permanent settlement and early civilizations.	III. Natural systems change in ways that people benefit from and can influence. CONCEPT A: Students need to know that natural systems proceed through cycles and processes that are required for their functioning. CONCEPT B: Students need to know that humans depend upon and benefit from the cycles and processes that operate within natural systems.	By the Rivers of Babylon (94)	River Systems and Ancient Peoples	
Trace the development of agricultural techniques that permitted the production of economic surplus and the emergence of cities as centers of culture and power.	III. Natural systems change in ways that people benefit from and can influence. CONCEPT B: Students need to know that humans depend upon and benefit from the cycles and processes that operate within natural systems.	By the Rivers of Babylon (94)	Agricultural Advances in Ancient Civilizations	

6. Discuss the main features of Equation art == 1	II. The long term functioning and health of torrestrict		Forms and Kirch. A Tale of Time Mineral and
Discuss the main features of Egyptian art and architecture. 8.	II. The long-term functioning and health of terrestrial, freshwater, coastal, and marine ecoystems are influenced by		Egypt and Kush: A Tale of Two Kingdoms
Identify the location of the Kush civilization and describe its political, commercial, and cultural relations with Egypt.	their relationships with human societies. CONCEPT A: Students need to know that direct and indirect changes to		
political, confinercial, and cultural relations with Egypt.	_		
	natural systems due to the growth of human populations and		
	their consumption rates influence the geographic extent,		
	composition, biological diversity, and viability of natural		
	systems. CONCEPT B: Students need to know that methods		
	used to extract, harvest, tranport, and consume natural		
	resources influence the geographical extent, composition,		
	biological diversity, and viability of natural systems. CONCEPT		
	D: Students need to know that the legal, economic, and		
	political systems that govern the use and management of		
	natural systems directly influence the geographic extent,		
	composition, biological diversity, and viability of natural		
	systems.		
	nic, religious, and social structures of the early civilization	s of India.	
Locate and describe the major river system and discuss the	III. Natural systems change in ways that people benefit from and		The Rivers and Ancient Empires of China
physical setting that sup-ported the rise of this civilization.	can influence. CONCEPT A: Students need to know that natural		and India
	systems proceed through cycles and processes that are required for		
	their functioning. CONCEPT B: Students need to know that humans		
	depend upon and benefit from the cycles and processes that		
	operate within natural systems.		
6.6 Students analyze the geographic, political, econon	nic, religious, and social structures of the early civilization	s of China.	
. Locate and describe the origins of Chinese civilization in the	III. Natural systems change in ways that people benefit from and		The Rivers and Ancient Empires of China
Huang-He Valley during the Shang Dynasty.	can influence. CONCEPT A: Students need to know that natural		and India
	systems proceed through cycles and processes that are required for		
	their functioning. CONCEPT B: Students need to know that humans		
	depend upon and benefit from the cycles and processes that		
	operate within natural systems.		
	7th Grade- World History and Geography: Me	edieval and Early Modern Times	
7.2 Students analyze the geographic, political, econor	mic, religious, and social structures of the civilizations of I	slam in the Middle Ages.	
5. Describe the growth of cities and the establishment of	II. The long-term functioning and health of terrestrial, coastal,	Paper Civilizations (93); C68	Arabic Trade Networks: Growth and
trade routes among Asia, Africa, and Europe, the products	and marine ecosystems are influenced by theier relationships		Expansion in the Middle Ages
and inventions that traveled along these routes (eg. Spices,	with human societies. CONCEPT C: Students need to know		l [·]
	that the expansion and operation of human communities		
textiles, paper, steel, new crops) and the role of merchants			
in Arab society	influences the geographic extent, composition, biological		
	influences the geographic extent, composition, biological diversity, and viability of natural systems		
in Arab society	= = :	hina in the Middle Ages.	
in Arab society	diversity, and viability of natural systems	-	Genius Across the Centuries
in Arab society .3 Students analyze the geographic, political, econom	diversity, and viability of natural systems nic, religious, and social structures of the civilizations of C	-	Genius Across the Centuries
in Arab society 7.3 Students analyze the geographic, political, econom 5 Trace the historic influence of such discoveries as tea, the	diversity, and viability of natural systems nic, religious, and social structures of the civilizations of C 1. The continuation and health of individual human lives and of	-	Genius Across the Centuries
in Arab society 7.3 Students analyze the geographic, political, econom 5 Trace the historic influence of such discoveries as tea, the manufacture of paper, wood-block printing, the compass,	diversity, and viability of natural systems nic, religious, and social structures of the civilizations of C I. The continuation and health of individual human lives and of human communities and societies depend on the health of	-	Genius Across the Centuries
in Arab society 7.3 Students analyze the geographic, political, econom 5 Trace the historic influence of such discoveries as tea, the manufacture of paper, wood-block printing, the compass,	diversity, and viability of natural systems nic, religious, and social structures of the civilizations of C I. The continuation and health of individual human lives and of human communities and societies depend on the health of the natural systems that provide essential goods and	-	Genius Across the Centuries
in Arab society 7.3 Students analyze the geographic, political, econom 5 Trace the historic influence of such discoveries as tea, the manufacture of paper, wood-block printing, the compass,	diversity, and viability of natural systems nic, religious, and social structures of the civilizations of C 1. The continuation and health of individual human lives and of human communities and societies depend on the health of the natural systems that provide essential goods and ecosystem services. CONCEPT A: Students need to know that	-	Genius Across the Centuries
in Arab society 7.3 Students analyze the geographic, political, econom 5 Trace the historic influence of such discoveries as tea, the manufacture of paper, wood-block printing, the compass,	diversity, and viability of natural systems nic, religious, and social structures of the civilizations of C 1. The continuation and health of individual human lives and of human communities and societies depend on the health of the natural systems that provide essential goods and ecosystem services. CONCEPT A: Students need to know that the goods produced by natural systems are essential to	-	Genius Across the Centuries

3. Understand the development of feudalism, its role in the	V. Decisions affecting resources and natural systems are	Managing Nature's Bounty: Fuedalism in
medieval European economy, the way in which it was	based on a wide range of considerations and decision-making	Medieval Europe
influenced by physical geography (the role of the manor and	processes. CONCEPT A: Students need to know the spectrum	•
the growth of towns), and how feudal relationships	of what is considered in making decisions about resources and	
provided the foundation of politi	natural sytems and how thsoe factors influence decisions.	
	CONCEPT B: Students need to know the process of making	
	decisions about natural resources and natural systems, and	
	how the assessment of social, economic, political, and	
	environmental factors has changed over time.	

Study the locations, landforms, and climates of Mexico,	The continueation of health of individual human lives and of	Sun Gods and Jaguar Kings
Central America, and South America and their effects on	human communities and societies depend on the health of	our cour unu suguer iumge
Mayan, Aztec, and Incan economies, trade, and	the natural systems that provide essential goods and	
development of urban societies.	ecosystem services. CONCEPT A: Students need to know that	
	the ecosystem goods produced by natural systems are	
	essential to human life and to the functioning of our	
	economies and cultures. CONCEPT B: Students need to know	
	that the ecosystem services provided by natural systems are	
	essential to human life and to the functioning of our	
	economies and cultures.	
	continues and curcures.	
Explain how and where each empire arose and how the	V. Decisions affecting resources and natural systems are	Broken Jade and Tarnished Gold
Aztec and Incan empires were defeated by the Spanish.	based on a wide range of considerations and decision-making	broken Jade and Tarnished Gold
Aztec and incan empires were dereated by the Spanish.	processes. CONCEPT A: Students need to know the spectrum	
	of what is considered in making decisions about resources and	
	natural sytems and how those factors influence decisions.	
	CONCEPT B: Students need to know the process of making	
	decisions about resources and natural systems, and how the	
	assessment of social, economic, political, and environmental	
	factors has changed over time.	
L	Eighth Grade U.S. History and Geography	y Growth and Conflict
	Eighth Grade 0.5. History and Geography	. Growth and Connict
Students analyze the aspirations and ideals of the p	eople of the new nation.	
· · · · · · · · · · · · · · · · · · ·	·	
Describe the country's physical landscapes, political	II. The long-term functioning and health of terrestrial,	O Land Politics and Expansion in the Earl
divisions, and territorial expansion during the terms of the	freshwater, coastal, and marine ecosystems are influenced by	Republic
first four presidents.	their relationships with human societies. CONCEPT D:	
	Students need to know that the legal, economic, and political	
	systems that govern tghe use and management of natural	
	systems directly influence the geographic extent, composition,	
	biological diversity, and viability of natural systems.	

	T		I
3. List the reasons for the wave of immigration from			America Grows
Northern Europe to the United States and describe the			
growth in the number, size, and spatial arrangements of	I. The continuation and health of individual human lives and of		
cities (e.g., Irish immigrants and the Great Irish Famine).	human communities and societies depend on the health of		
	the natural systems that provide essential goods and		
	ecosystem services. CONCEPT A: Students need to know that		
	the goods produced by natural systems are essential to		
	human life and to the functioning of our economies and		
	cultures. CONCEPT C: Students need to know that the quality,		
	quantity and relability of the goods and ecosystem services		
	provided by natural systems are directly affeced by the health		
	of those systems.		
8.8 Students analyze the divergent paths of the Ameri	can people in the West from 1800 to the mid-1800s and t	he challenges they faced.	
Examine the importance of the great rivers and the	V. Decisions affecting resources and natural systems are	<u> </u>	0 Struggles With Water
struggle over water rights.	based on a wide range of considerations and decision-making		
	processes. CONCEPT A: Students need to know the spectrum		
	of what is considered in making decisions about resources and		
	natural sytems and how those factors influence decisions.		
	*		
	CONCEPT B: Students need to know the process of making		
	CONCEPT B: Students need to know the process of making decisions about resources and natural systems, and how the		
	decisions about resources and natural systems, and how the		
	decisions about resources and natural systems, and how the assessment of social, economic, political, and environmental		
3.12 Students analyze the transformation of the Amer	decisions about resources and natural systems, and how the assessment of social, economic, political, and environmental factors has changed over time.	tions in the United States in response to the Indus	trial Revolution.
3.12 Students analyze the transformation of the Amer	decisions about resources and natural systems, and how the assessment of social, economic, political, and environmental	tions in the United States in response to the Indus	trial Revolution.
·	decisions about resources and natural systems, and how the assessment of social, economic, political, and environmental factors has changed over time. ican economy and the changing social and political condi	tions in the United States in response to the Indus	
Trace patterns of agricultural and industrial development	decisions about resources and natural systems, and how the assessment of social, economic, political, and environmental factors has changed over time. ican economy and the changing social and political condi II. The long-term functioning and health of terrestrial,	tions in the United States in response to the Indus	Agricultural and Industrial Development in
Trace patterns of agricultural and industrial development as they relate to climate, use of natural resources, markets,	decisions about resources and natural systems, and how the assessment of social, economic, political, and environmental factors has changed over time. ican economy and the changing social and political condi II. The long-term functioning and health of terrestrial, freshwater, coastal, and marine ecosystems are influenced by	tions in the United States in response to the Indus	
Trace patterns of agricultural and industrial development	decisions about resources and natural systems, and how the assessment of social, economic, political, and environmental factors has changed over time. ican economy and the changing social and political condi II. The long-term functioning and health of terrestrial, freshwater, coastal, and marine ecosystems are influenced by their relationships with human societies. CONCEPT A:	tions in the United States in response to the Indus	Agricultural and Industrial Development in
Trace patterns of agricultural and industrial development as they relate to climate, use of natural resources, markets,	decisions about resources and natural systems, and how the assessment of social, economic, political, and environmental factors has changed over time. ican economy and the changing social and political condi II. The long-term functioning and health of terrestrial, freshwater, coastal, and marine ecosystems are influenced by their relationships with human societies. CONCEPT A: Students need to know that direct and indirect changes to	tions in the United States in response to the Indus	Agricultural and Industrial Development in
Trace patterns of agricultural and industrial development as they relate to climate, use of natural resources, markets,	decisions about resources and natural systems, and how the assessment of social, economic, political, and environmental factors has changed over time. ican economy and the changing social and political condi II. The long-term functioning and health of terrestrial, freshwater, coastal, and marine ecosystems are influenced by their relationships with human societies. CONCEPT A: Students need to know that direct and indirect changes to natural systems due to the growth of human populations and	tions in the United States in response to the Indus	Agricultural and Industrial Development in
Trace patterns of agricultural and industrial development as they relate to climate, use of natural resources, markets,	decisions about resources and natural systems, and how the assessment of social, economic, political, and environmental factors has changed over time. ican economy and the changing social and political condi II. The long-term functioning and health of terrestrial, freshwater, coastal, and marine ecosystems are influenced by their relationships with human societies. CONCEPT A: Students need to know that direct and indirect changes to natural systems due to the growth of human populations and their consumption rates influence the geographic extent,	tions in the United States in response to the Indus	Agricultural and Industrial Development in
Trace patterns of agricultural and industrial development as they relate to climate, use of natural resources, markets,	decisions about resources and natural systems, and how the assessment of social, economic, political, and environmental factors has changed over time. ican economy and the changing social and political condi II. The long-term functioning and health of terrestrial, freshwater, coastal, and marine ecosystems are influenced by their relationships with human societies. CONCEPT A: Students need to know that direct and indirect changes to natural systems due to the growth of human populations and their consumption rates influence the geographic extent, composition, biological diversity, and viability of natural	tions in the United States in response to the Indus	Agricultural and Industrial Development in
Trace patterns of agricultural and industrial development as they relate to climate, use of natural resources, markets,	decisions about resources and natural systems, and how the assessment of social, economic, political, and environmental factors has changed over time. ican economy and the changing social and political condi II. The long-term functioning and health of terrestrial, freshwater, coastal, and marine ecosystems are influenced by their relationships with human societies. CONCEPT A: Students need to know that direct and indirect changes to natural systems due to the growth of human populations and their consumption rates influence the geographic extent, composition, biological diversity, and viability of natural systems. CONCEPT C: Students need to know that the	tions in the United States in response to the Indus	Agricultural and Industrial Development in
Trace patterns of agricultural and industrial development as they relate to climate, use of natural resources, markets,	decisions about resources and natural systems, and how the assessment of social, economic, political, and environmental factors has changed over time. ican economy and the changing social and political condi II. The long-term functioning and health of terrestrial, freshwater, coastal, and marine ecosystems are influenced by their relationships with human societies. CONCEPT A: Students need to know that direct and indirect changes to natural systems due to the growth of human populations and their consumption rates influence the geographic extent, composition, biological diversity, and viability of natural systems. CONCEPT C: Students need to know that the expansion and operation of human communities influences	tions in the United States in response to the Indus	Agricultural and Industrial Development in
Trace patterns of agricultural and industrial development as they relate to climate, use of natural resources, markets,	decisions about resources and natural systems, and how the assessment of social, economic, political, and environmental factors has changed over time. ican economy and the changing social and political condi II. The long-term functioning and health of terrestrial, freshwater, coastal, and marine ecosystems are influenced by their relationships with human societies. CONCEPT A: Students need to know that direct and indirect changes to natural systems due to the growth of human populations and their consumption rates influence the geographic extent, composition, biological diversity, and viability of natural systems. CONCEPT C: Students need to know that the expansion and operation of human communities influences the geographic extent, composition, biological diversity, and	tions in the United States in response to the Indus	Agricultural and Industrial Development in
Trace patterns of agricultural and industrial development as they relate to climate, use of natural resources, markets,	decisions about resources and natural systems, and how the assessment of social, economic, political, and environmental factors has changed over time. II. The long-term functioning and health of terrestrial, freshwater, coastal, and marine ecosystems are influenced by their relationships with human societies. CONCEPT A: Students need to know that direct and indirect changes to natural systems due to the growth of human populations and their consumption rates influence the geographic extent, composition, biological diversity, and viability of natural systems. CONCEPT C: Students need to know that the expansion and operation of human communities influences the geographic extent, composition, biological diversity, and viability of natural communities.	tions in the United States in response to the Indus	Agricultural and Industrial Development in the United States (1877-1914).
Trace patterns of agricultural and industrial development as they relate to climate, use of natural resources, markets, and trade and locate such development on a map. 5. Examine the location and effects of urbanization,	decisions about resources and natural systems, and how the assessment of social, economic, political, and environmental factors has changed over time. Itan economy and the changing social and political condictions and the changing social and political condictions. II. The long-term functioning and health of terrestrial, freshwater, coastal, and marine ecosystems are influenced by their relationships with human societies. CONCEPT A: Students need to know that direct and indirect changes to natural systems due to the growth of human populations and their consumption rates influence the geographic extent, composition, biological diversity, and viability of natural systems. CONCEPT C: Students need to know that the expansion and operation of human communities influences the geographic extent, composition, biological diversity, and viability of natural communities. IV. The exchange of matter between natural systems and		Agricultural and Industrial Development in the United States (1877-1914). Industrialization, Urbanization, and the
1. Trace patterns of agricultural and industrial development as they relate to climate, use of natural resources, markets, and trade and locate such development on a map. 5. Examine the location and effects of urbanization, renewed immigration, and industrialization	decisions about resources and natural systems, and how the assessment of social, economic, political, and environmental factors has changed over time. ican economy and the changing social and political condi II. The long-term functioning and health of terrestrial, freshwater, coastal, and marine ecosystems are influenced by their relationships with human societies. CONCEPT A: Students need to know that direct and indirect changes to natural systems due to the growth of human populations and their consumption rates influence the geographic extent, composition, biological diversity, and viability of natural systems. CONCEPT C: Students need to know that the expansion and operation of human communities influences the geographic extent, composition, biological diversity, and viability of natural communities. IV. The exchange of matter between natural systems and human societies affects the long-term functioning of both.		Agricultural and Industrial Development in the United States (1877-1914).
1. Trace patterns of agricultural and industrial development as they relate to climate, use of natural resources, markets, and trade and locate such development on a map. 5. Examine the location and effects of urbanization, renewed immigration, and industrialization (e.g., the effects on social fabric of cities, wealth and	decisions about resources and natural systems, and how the assessment of social, economic, political, and environmental factors has changed over time. ican economy and the changing social and political condi II. The long-term functioning and health of terrestrial, freshwater, coastal, and marine ecosystems are influenced by their relationships with human societies. CONCEPT A: Students need to know that direct and indirect changes to natural systems due to the growth of human populations and their consumption rates influence the geographic extent, composition, biological diversity, and viability of natural systems. CONCEPT C: Students need to know that the expansion and operation of human communities influences the geographic extent, composition, biological diversity, and viability of natural communities. IV. The exchange of matter between natural systems and human societies affects the long-term functioning of both. CONCEPT A: Students need to kow that the effects of human		Agricultural and Industrial Development in the United States (1877-1914). Industrialization, Urbanization, and the
1. Trace patterns of agricultural and industrial development as they relate to climate, use of natural resources, markets, and trade and locate such development on a map. 5. Examine the location and effects of urbanization, renewed immigration, and industrialization	decisions about resources and natural systems, and how the assessment of social, economic, political, and environmental factors has changed over time. ican economy and the changing social and political condi II. The long-term functioning and health of terrestrial, freshwater, coastal, and marine ecosystems are influenced by their relationships with human societies. CONCEPT A: Students need to know that direct and indirect changes to natural systems due to the growth of human populations and their consumption rates influence the geographic extent, composition, biological diversity, and viability of natural systems. CONCEPT C: Students need to know that the expansion and operation of human communities influences the geographic extent, composition, biological diversity, and viability of natural communities. IV. The exchange of matter between natural systems and human societies affects the long-term functioning of both.		Agricultural and Industrial Development in the United States (1877-1914).

	10th Grade- World History, Culture, and Go	eography: The Modern World	
0.3 Students analyze the effects of the Industrial Rev	olution in England, France, Germany, Japan, and the Unit	ted States.	
Analyze why England was the first country to industrialize	I. The continuation and health of individual human lives and of human communities and societies depend on the health of the natural systems that provide essential goods and ecosystem services. CONCEPT A: Students need to know that the goods produced by natural systems are essential to human life and to the functioning of our economies and cultures. CONCEPT B: Students need to know that the ecosystem services provided by natural systems are essential to human life and the functioning of our		Britian Solves a Problem and Creates an Industrial Revolution
2. Examine how scientific and technological changes and new forms of energy brought about massive social, economic, and cultural change (e.g., the inventions and discoveries of James Watt, Eli Whitney, Henry Bessemer, Louis Pasteur, Thomas Edison). 3. Describe the growth of population, rural to urban migration, and growth of cities associated with the Industrial Revolution.	economies and cultures. II. The long-term functioning and health of terrestrial, freshwater, coastal, and marine ecosystems are influenced by their relationships with human societies. CONCEPT A: Students need to know that direct and indirect changes to natural systems due to the growth of human populations and their consumption rates influence the geographic extent, composition, biological diversity, and viability of natural systems. CONCEPT B: Students need to know that methods used to extract, harvest, transport, and consume natural resources influence the geographic extent, composition, biological diversity, and viability of natural systems. CONCEPT D: Students need to kow that the legal, economic, and political systems that govern the use and management of natural systems directly influence the geographic extent, composition, biological diversity, and viability of natural systems.	The Waste Stream (MSW) Community Character, Mapping Your Community Through Time (Places We Live)	Growth of Population, Cities, and Demand
 Understand the connections among natural resources, entrepreneurship, labor, and capital in an industrial economy. 		NC CVC)	Britian Solves a Problem and Creates an Industrial Revolution
1. Describe the rise of industrial economies and their link to imperialism and colonialism (e.g., the role played by national security and strategic advantage; moral issues raised by the search for national hegemony, Social Darwinism, and the missionary i	e era of New Imperialism in at least two of the following roll. The long-term functioning and health of terrestrial, freshwater, coastal, and marine ecosystems are influenced by their relationships with human societies. CONCEPT C: Students need to know that the expansion and operation of human communites influences the geographic extent, composition, biological diversity, and viability of natural systems. CONCEPT D: Students need to kow that the legal, economic, and political systems that govern the use and management of natural systems directly influence the geographic extent, composition, biological diversity, and viability of natural systems.		ndia, Latin America, and the Philippines. New Imperialism: The Search for Natural Resources

3, Explain imperialism from the perspective of the colonizers and the colonized and the varied immediate and long-term responses by the people under colonial rule.	V. Decisions affecting resources and natural systems are based on a wide range of considerations and decision-making processes. CONCEPT A: Students need to know the spectrum of what is considered in making decisions about resources and natural systems and how those factors influence decisions. CONCEPT B: Students need to know the process of making decisions about resources and natural systems, and how the assessment of social, economic, political, and environmental factors has changed over time.		New Imperialism: The Control of India's and South Africa's Resources
	ade- United States History and Geography: Conti	•	
7. Discuss the rise of mass production techniques, the growth of cities, the impact of new technologies (e.g., the automobile, electricity), and the resulting prosperity and effect on the American landscape.	IV. The exchange of matter between natural systems and human societies affects the long-term functioning of both. CONCEPT A: Students need to kow that the effects of human activities on natural systems are directly related to the quantities of resources consumed and to the quantity and characteristics of the resulting byproducts. CONCEPT B: Students need to know that the byproducts of human activity are not readily prevented from entering natural systems and may be beneficial, neutral, or detrimental in their effect.	The Waste Stream (MSW)	Mass Production, Marketing, and Consumption in the Roaring Twenties
.8 Students analyze the economic boom and social t	ransformation of post–World War II America.		
 Discuss the diverse environmental regions of North America, their relationship to local economies, and the origins and prospects of environmental problems in those regions. 	II. The long-term functioning and health of terrestrial, freshwater, coastal, and marine ecosystems are influenced by their relationships with human societies. CONCEPT B. Students need to know that methods used to extract, harvest, transport and consume natural resources influences the geographic extent, composition, biological diversity, and viability of natural systems. CONCEPT D: Students need to kow that the legal, economic, and political systems that govern the use and management of natural systems directly influence the geographic extent, composition, biological diversity, and viability of natural systems.	(Focus on Forests); Decision Making: Ecological Risk, Wildfires, Natural Hazards, Special Topics: Electromagnetics Fields	Postwar Industries and the Emerging Environmental Movement

in the twentieth century, including key economic, political,			
	based on a wide range of considerations and decision-making		Together
immigration, and environmental issues.	processes. As a basis for understanding this principle:		
	Concept A: Students need to know the spectrum of what is		
	considered in making decisions about resources and natural		
	systems and how those factors influence decisions.		
11 Students analyze the major social problems and d	lomestic policy issues in contemporary American societ	y.	
5. Trace the impact of, need for, and controversies	V. Decisions affecting resources and natural sysyems are	What's a Forest to You, Case Study: Old Growth	Many Voices, Many Visions: Analyzing
associated with environmental conservation, expansion of	based on a wide range of considerations and decision-making	Forests; Tough Choices, Who Owns America's	Contemporary Environmental Issues
the national park system, and the development of	processes. As a basis for understanding this principle:	Forests, Balancing America's Forests, Words to Live	
environmental protection laws, with particular attention to	Concept A: Students need to know the spectrum of what is	By, Take Action (Focus on Forests); Communicating	
the interaction between environmental	considered in making decisions about resources and natural	Risk, Weights and Options: A Look at Tradeoffs,	
	systems and how those factors influence decisions.	Decision Making	
2 Students and tale and defend as the	12th Grade- Principles of American Do	•	
· · · · · · · · · · · · · · · · · · ·	on the scope and limits of rights and obligations as demo	ocratic citizens, the relationships among them, and i	
Explain how economic rights are secured and their importance to the individual and to society (e.g., the right to	 V. Decisions affecting resources and natural sysyems are based on a wide range of considerations and decision-making 		This Land is Our Land
acquire, use, transfer, and dispose of property; right to	processes. As a basis for understanding this principle:		
choose one's work; right to join or not join labor unions;	Concept A: Students need to know the spectrum of what is		
copyright and patent)	considered in making decisions about resources and natural		
copyright and patently	systems and how those factors influence decisions. CONCEPT		
	B: Students need to know the process of making decisions		
	about natural resources and natural systems, and how the		
	assessment of social, economic, political, and environmental		
	factors has changed over time.		
Describe the reciprocity between rights and obligations;	V. Decisions affecting resources and natural sysyems are	Tough Choices (Focus on Forests); Decision Making:	This Land is Our Land
that is, why enjoyment of one's rights entails respect for the	based on a wide range of considerations and decision-making	Ecological Risks (Risk); Community Character,	
rights of others.	processes. As a basis for understanding this principle:	Neighborhood Design, Green Space, Vision for the	
	Concept A: Students need to know the spectrum of what is	Future, Far Reaching Decisions , Regional	
	considered in making decisions about resources and natural	Community Issues (Places We Live)	
	systems and how those factors influence decisions. CONCEPT	community issues (Fluces we live)	
	B: Students need to know the process of making decisions		
	about natural resources and natural systems, and how the		
	assessment of social, economic, political, and environmental		
	factors has changed over time		
		ociety are (i.e., the autonomous sphere of voluntary	

Explain how civil society makes it possible for people, individually or in association with others, to bring their influence to bear on government in ways other than voting and elections.	processes. As a basis for understanding this principle: Concept A: Students need to know the spectrum of what is considered in making decisions about resources and natural systems and how those factors influence decisions. CONCEPT B: Students need to know the process of making decisions about natural resources and natural systems, and how the assessment of social, economic, political, and environmental factors has changed over time	Case Study: Old Growth Forests, Tough Choices, Squirrels vs. Scopes (Focus on Forests); Personal Places, Community Character, Mapping Your Community Through Time, Neighborhood Design,k Green Space, A Vision for the Future, Far Reaching Decisions (Places We Live)	Active Voices: Civil Society and the Environment
Students analyze and compare the powers and pr Compare the processes of lawmaking at each of the three levels of government, including the role of lobbying and the media.	based on a wide range of considerations and decision-making	Community Character, Mapping Your Community	Making and Implementing Environmental Laws

12th Grade- Principles of Economics						
12.1 Students understand common economic terms and concepts and economic reasoning.						
Evaluate the role of private property as an incentive in conserving and improving scarce resources, including renewable and nonrenewable natural resources.	V. Decisions affecting resources and natural sysyems are based on a wide range of considerations and decision-making processes. As a basis for understanding this principle: Concept A: Students need to know the spectrum of what is considered in making decisions about resources and natural systems and how those factors influence decisions. CONCEPT B: Students need to know the process of making decisions about natural resources and natural systems, and how the assessment of social, economic, political, and environmental factors has changed over time.	Decisionmaking: Ecological Risk (Risk); Personal Places, Community Chara+A103cter, Mapping Your Community Through Time, Neighborhood Design, Green Space, A Vision for the Future, Far Reaching Decisions, Regional Community Issues (Places We Live)	Private Property and Resource Conservation			
I 2.2 Students analyze the elements of America's marke	et economy in a global setting.					
Discuss the effects of changes in supply and/or demand on the relative scarcity, price, and quantity of particular products.	IV. The exchange of matter between natural systems and human societies affects the long-term functioning of both. CONCEPT A: Students need to kow that the effects of human activities on natural systems are directly related to the quantities of resources consumed and to the quantity and characteristics of the resulting byproducts. CONCEPT B: Students need to know that the byproducts of human activity are not readily prevented from entering natural systems and may be beneficial, neutral, or detrimental in their effect.CONCEPT C: Students need to know that the capacity of natural systems to adjust to human alterations depends on the nature of the system as well as the scope, scale, and duration of the activity and nature of the byproducts.	Weighing the Options: A Look at Tradeoffs (Risk); Source Reduction (MSW); Exploring the World Marketplace (Global Connections)	Sustaining Economics and the Earth's Resources			
7. Analyze how domestic and international competition in a market economy affects goods and services produced and the quality, quantity, and price of those products.	IV. The exchange of matter between natural systems and human societies affects the long-term functioning of both. CONCEPT A: Students need to kow that the effects of human activities on natural systems are directly related to the quantities of resources consumed and to the quantity and characteristics of the resulting byproducts. CONCEPT B: Students need to know that the byproducts of human activity are not readily prevented from entering natural systems and may be beneficial, neutral, or detrimental in their effect.CONCEPT C: Students need to know that the capacity of natural systems to adjust to human alterations depends on the nature of the system as well as the scope, scale, and duration of the activity and nature of the byproducts.	Exploring the World Marketplace (Global Connections)	Sustaining Economics and the Earth's Resources			

 Understand how the role of government in a market economy often includes providing for national defense, addressing environmental concerns, defining and enforcing property rights, attempting to make markets more competitive, and protecting consumers' r V. Decisions affecting resources and natural sysyems are based on a wide range of considerations and decision-making processes. As a basis for understanding this principle: Concept A: Students need to know the spectrum of what is considered in making decisions about resources and natural systems and how those factors influence decisions. CONCEPT B: Students need to know the process of making decisions about natural resources and natural systems, and how the assessment of social, economic, political, and environmental factors has changed over time.

Old Growth Forests (Focus on Forests); Weighing the Options: A Look at Tradeoffs, Decision Making: Ecological Risk-Plastics (Exploring Environmental Issues -Focus on Risk)

Government and the Economy: An Environmental Perspective.

Participants in the review of the "Project Learning Tree materials and the development of an alignment to the California Environmental Education Initiative's Environmental Principles and Concepts (EP&C) and Standards-based learning objectives -2006.

Kay Antunez de Mayolo

M.S., B.S., Biological Sciences

California Teaching Credential (Life Credential) - Secondary Science

Classroom science teacher - (grades 3-8, high school, community college, outdoor school educator) - 12 years

Education Director - Sacramento Tree Foundation

Marianne Chang

B.A. International Relations

California Teaching Credential - multiple subjects (K-8)

Reading Certificate, CLAD

Classroom teacher (grades 1, 2, 5) -10 years

Reading Specialist, Reading Recovery teacher, Literacy Coach

Scorer - CA Subjects CSET, multiple subjects exam-RISE

Linda Desai

BS, Conservation Education, M.S. Conservation Education

Community College credential-Biological Sciences, Natural Resources, Forestry and related technologies

Education Director, Placer Nature Center - 15 years

PLT "Educator of the Year" award (2005)

Facilitator - Project Learning Tree, Project WILD, Project WET

Dennis Mitchell

BA, Liberal Studies

California Teaching Credential (Life) Multiple Subjects

Science and Math teacher (grades 3, 8) - 28 years

Staff development and education consultant, California Science Project, Science in Rural California, Project ARISE

PLT "Educator of the Year" (2000)

Reviewers for the updated alignment of Project Learning Tree curriculum materials and the Education and the Environment Initiative's 45 curriculum units. June 2010.

Helen de la Maza

BA, Comparative Literature & Biological Sciences

MS, Wildlife Science

MA, Curriculum & Instruction

California Teaching Credentials: Biological Sciences, Language Arts, Spanish, Multiple Subjects

Environmental Educator - 15 years

Facilitator - Project Learning Tree, Project WILD, Project WET, Population Connection

Curricululm Writer- Education and the Environment Inititative

Michael Roa

MA, Secondary Education

Science Teacher - 2 years

Secondary (life), Multiple Subject, Administrative Services

Staff Developer- North Coast Professional Development Consortium; Lead Teacher - Redwood Area Science Project

Science Activities Kit, A Guide to the Side of the Sea, Redwood Ed

Initiative

BA, Life BA -Sciences (minor-Physical Sciences)

California Teaching Credentials: Standard

Classroom teacher and Administrator (grades 4-12) - 38 years

Author - Environmental

Curriculum Writer - Education and the Environment

Facilitator - Project Learning Tree, Project WILD, Project WET