Science: Environmental Science			
UNIT/Weeks	Timeline/Topics	Essential Questions	
4	Introduction to Environmental Science Science and the Environment Tools of Environmental Science The Dynamic Earth Scientific Methods Statistics and Models Making Informed Decisions The Geosphere The Atmosphere The Hydrosphere and Biosphere	 Do the benefits of the agriculture and industrial revolution outweigh the negative impact they have had on the environment? Is sustainability an achievable reality? How do scientists determine decisions regarding our environment? What role do models and statistics play in environmental science? What impacts our environment the most: politics, economics or technology? What impact do Earth's natural processes have on our environment? How do Earth's natural processes and human involvement interact to produce global warming? How does the hydrosphere interact with the biosphere? 	
6	Ecology The Organization of Life How Ecosystems Work Biomes Aquatic Ecosystems Energy Flow in Ecosystems The Cycling of Materials How Ecosystems Flow What Is a Biome? Forest Biomes Grassland, Desert and Tundra Biomes Freshwater Ecosystems Marine Ecosystems	 How do the living and nonliving parts of an ecosystem interact? How and why do organisms need to adapt? Why is it important that organisms hold different niches within the environment? How is energy cycled through the biosphere? How do key nutrients cycle through the biosphere and what role do they play in it? How do ecosystems change over time? What determines where an organism can live? What determines where an organism can live? Could any life on Earth exist without oceans and estuaries? 	
4	Populations Understanding Populations The Human Population Biodiversity Studying Human Populations Changing Population Trends What Is Biodiversity? Biodiversity at Work The Future of Biodiversity	 Why do scientists study population growth? How does an organism's habitat determine its niche? How do organisms interact in their environment? How do scientists study population growth? How are population growth and sustainability related? 	

		 What role should humans play in limiting population growth? What affects population growth? What roles should humans play in maintaining biodiversity? What causes threats on biodiversity and what can be done to prevent conserve it? What role should society play in conserving biodiversity? How do humans rely on natural water
10	Water, Air, and Land Water Air Air Atmospheres and Climate Change Land Food and Agriculture What causes air pollution? Air, Noise and Light Pollution Acid Precipitation Climate and Climate Change The Ozone Shield Global Warming How We Use Land Urban Land Use Land Management and Conservation Feeding The World Crops and Soil Animals and Agriculture	 resources for survival? How do humans manipulate natural water resources to our advantage? How is water pollution classified? How can humans reduce our impact on water pollution? How are the different types of air pollution created? How are the different types of air pollution affecting the Earth? How has the production of acid rain caused changes within the environment? What determines weather and climatic regions of the world? Why is the ozone so important to living organisms? What is the cause in the changing climate? Why is a temperature or climatic change important? How Are Different Types of Land Used? How Is Society Dealing with Land Usage? Why Is It Important to Understand How Land Is Used?
8	TANNA MIN LANGE	How are specific types of minerals formed?

 Mining and Mineral F Nonrenewable Energy Resources Renewable Energy F Waste Energy Resources a Fuels Nuclear Energy Renewable Energy T Alternate Energy and Conservation Solid Waste Reducing Solid Waste Hazardous Waste 	minerals are recovered from the Earth? How has mining regulations created by the government helped in conserving the environment? How are fuels created, used and consumed within the United States? What is nuclear energy? How does the use of nuclear energy compare to the use of fossil fuels? What are the several forms of renewable energy?
Health and Environment The Environment and Health Economics, Policy and Pollution and Humand Biological Hazards Economics and Inter Cooperation Environmental Policie United States The Importance of the Individual	 spread in old and new diseases? How has international cooperation on the environment impacted economics? How has the past contributed to the different forms of government dealing with the environment? How can individual and media presence affect governmental policies. Who are some of the people who