2008-2009
The Human Footprint
Second Nine Weeks

5th grade (2001)	5th grade (2010)	4th grade (2001)	4th grade (2010)
3. Determine the factors that influence the regulation and behavior of organisms. (L,E) a. Identify and describe resources needed to grow, reproduce, maintain, and survive in a changing environment. 5. Explore the diversity and adaptations of organisms. (L,E) c. Research and investigate environmental changes and the inability of a species to adapt. 6. Investigate the structure of the Earth b. examine how organisms affect the composition of the Earth and it's atmosphere. c. Analyze processes that cause changes on Earth. d. Explore fossils as indicators of how life and environmental conditions have changed.	4. Develop an understanding of the properties of Earth materials, objects in the sky, and changes in Earth and sky. d. Describe changes caused by humans on the environment and natural resources and cite evidence from research of ways to conserve natural resources in the United States, including (but not limited to) Mississippi. Examples of Mississippi efforts include the following: (DOK 2) * Associated Physics of America, a private company located in Greenwood Mississippi, develops ways to convert a variety of agricultural products into efficient, environment-friendly and cost-effective energy sources. * The Natural Resource Enterprises (NRE) Program of the Department of Wildlife and Fisheries and the Cooperative Extension Service at MSU educate landowners in the Southeast about sustainable natural resource enterprises and compatible habitat	7. Discover how environmental concerns relate to the hydrosphere, lithosphere and atmosphere. (E, L) a. Describe ways to protect the air we breathe. b. Recognize the need for conservation of water resources. c. Discuss the ways man can protect and manage organisms in the environment.	1. Explain and use skills necessary to conduct scientific inquiry. f. Explain why scientists and engineers often work in teams with different individuals doing different things that contribute to the results. 3. Analyze the characteristics, structures, life cycles, and environments of organisms. a. Describe the cause and effect relationships that explain the diversity and evolution of organisms over time. (DOK 2) * Observable traits due to inherited or environmental adaptations * Variations in environment (over time and from place to place) * Variations in species as exemplified by fossils Extinction of a species due to insufficient adaptive capability in the face of environmental changes

	management practices. * The Engineer Research and Development Center of the Vicksburg District of the U.S. Army Corps of Engineers provides quality engineering and other professional products and services to develop and manage the Nation's water resources, reduce flood damage, and protect the environment. g. Conclude that the supply of many Earth resources (e.g., fuels, metals, fresh water, farmland) is limited and critique a plan to extend the use of Earth's resources (e.g., recycling, reuse, renewal). (DOK 3)		4. Develop an understanding of the properties of Earth materials, objects in the sky, and changes in Earth and sky. d. Describe how human activities have decreased the capacity of the environment to support some life forms. (DOK 2) * Reducing the amount of forest cover * Increasing the amount of chemicals released into the atmosphere * Farming intensively g. Summarize the process that results in deposits of fossil fuels and conclude why fossil fuels are classified as nonrenewable resources. (DOK 2)