Georgia State Standards: https://www.georgiastandards.org/Pages/default.aspx

Biology	Earth/Environmental Science	Geography
SB4. Students will assess the dependence of all organisms on one another and the flow of energy and matter within their ecosystems. d. Assess and explain human activities that influence and modify the environment such as global warming, population growth, pesticide use, and water and power consumption.	**SEV3.** Students will describe stability and change in ecosystems. b. Explain succession in terms of changes in communities through time to include changes in biomass, diversity, and complexity. c. Explain how succession may be altered by traumatic events. **SEV5.** Students will recognize that human beings are part of the global ecosystem and will evaluate the effects of human activities and technology on ecosystems. a. Describe factors affecting population growth of all organisms, including humans. Relate these to factors affecting growth rates and carrying capacity of the environment. b. Describe the effects of population growth, [demographic transitions], cultural differences, emergent diseases, etc. on societal stability. c. Explain how human activities affect global and local sustainability. d. Describe the actual and potential effects of habitat destruction, erosion, and depletion of soil fertility associated with human activities. e. Describe the effects and potential implications of pollution and resource depletion on the environment at the local and global levels (*e.g.* air and water pollution, solid waste disposal, depletion of the stratospheric ozone, global warming, and land uses).	**SSWG1**: The student will explain the physical aspects of geography. a. Describe the concept of place by explaining how physical characteristics such as landforms, bodies of water, climate, soils, natural vegetation, and animal life are used to describe a place. c. Analyze the interrelationship between physical and human characteristics of a place. **SSWG8:** The student will describe the interaction of physical and human systems that have shaped contemporary Canada and the United States. a. Describe the location of major physical features and their impact on Canada and the United States. d. Explain how the physical geography of Canada and the United States contributed to regional growth and development. Canada and the United States; include major customs and traditions. f. Analyze how transportation and communications improvements led to the growth of industry in the United States and the consequences of such growth, especially environmentally, for both Canada and the United States.

	f. Describe how political, legal, social, and economic decisions may affect global and local ecosystems. **Ecology** **SEC5.** Students will assess the impact of human activities on the natural world, and research how ecological theory can address current issues facing our society, locally and globally. b. Compare and contrast the ecological impact of sustainable and non-sustainable use of resources, including soil, timber, fish and wild game, mineral resources, and nonrenewable energy. c. Evaluate the causes and impacts on ecosystems of natural and anthropogenic climate change. d. Explain the consequences of habitat fragmentation and habitat loss on biodiversity in relation to island biogeography, and apply island biogeography theory to the design of parks and nature preserves. e. Research the ecological impact of agriculture (historical and modern) in the environment and its implications for feeding the world's population.	