

The Enviroscape Presentation correlates with the following Strands, Essential Standards and Objectives for 8th Grade Science as indicated by yellow highlighting.

Strand: Earth's Systems	
Standard	Objectives
ESS.8.2 Understand the hydrosphere including freshwater, estuarine, ocean systems.	ESS.8.2.1 Use models to explain the structure of the hydrosphere including: water distribution on earth, local river basins, estuaries, and water availability.
	ESS.8.2.2 Use models to explain how temperature and salinity drive major ocean currents and how these currents impact climate, ecosystems, and the distribution of nutrients, minerals, dissolved gases, and life forms.

Strand: Earth and Human Activity	
Standard	Objectives
ESS.8.3 Understand the reciprocal relationship between the hydrosphere and humans.	ESS.8.3.1 Analyze and interpret data to predict the safety and potability of water supplies in North Carolina based on physical and biological factors, including: temperature, dissolved oxygen, pH, nitrates and phosphates, turbidity, and bio-indicators.
	ESS.8.3.2 Engage in argument from evidence to explain that the good health of humans and the environment requires: monitoring of the hydrosphere, water quality standards, methods of water treatment, maintaining safe water quality, and stewardship.

Standard	Objectives
ESS.8.4 Understand the environmental implications associated with the various methods of obtaining, managing, and using energy resources.	ESS.8.4.1 Construct an explanation to classify the primary sources of energy as either renewable (Geothermal, Biomass, Solar, Wind, Hydroelectric) or nonrenewable (Coal, Petroleum, Natural Gas, Nuclear).
	ESS.8.4.2 Engage in argument from evidence to explain the environmental consequences of the various methods of obtaining, transforming, and distributing energy.
	ESS.8.4.3 Analyze and interpret data to illustrate the relationship between human activities and global temperatures since industrialization.
	ESS.8.4.4 Obtain, evaluate, and communicate information to compare the long term implications of the use of renewable and nonrenewable energy resources and the importance of stewardship and conservation.