

## **Appendix I: Implementing District Standards**

This unit will implement the North Carolina Essential Standards for secondary Earth and Environmental Science. These standards require the students to understand climate change, energy resources, and the impacts of these topics on the sustainability of planet Earth. Students will critique the benefits, costs, and environmental impact of various sources of energy. They will also analyze how changes in global temperatures affect the biosphere.

### Climate Change

EEn.2.6.1 Differentiate between weather and climate.

EEn.2.6.2 Explain changes in global climate due to natural processes.

EEn.2.6.3 Analyze the impacts that human activities have on global climate change (such as burning hydrocarbons, greenhouse effect, and deforestation).

EEn.2.6.4 Attribute changes to Earth's systems to global climate change (temperature change, changes in pH of ocean, sea level changes, etc.).

### Energy and sustainability

EEn.2.8.1 Evaluate alternative energy technologies for use in North Carolina.

EEn.2.8.3 Explain the effects of uncontrolled population growth on the Earth's resources.