

Appendix 1: Implementing Teaching Standards

This unit covers the North Carolina Essential Standards for three different classes: OCS Applied Science, Earth and Environmental Science and Biology. The unit encompasses the standards about Ecology and human impact on the environment. This unit will be used to teach, review and assess these standards in each class.

Human Impact

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

EEn.2.7.3 Explain how human activities impact the biosphere.

Bio 2.2.1 Infer how human activities (including population growth, pollution, global warming, burning of fossil fuels, habitat destruction and introduction of nonnative species) may impact the environment

OA6.1.2 Explain the effects of pollution on the earth, air and waterways and what can be done at the individual, family and community level to reduce pollution.

These standards will be addressed during our discussion regarding The Lorax and during our research project when students will be looking at a problem and finding the negative effects and what can be done about it.

Sustainability/Conservation

EEn.2.8.2 Critique conventional and sustainable agriculture and aquaculture practices in terms of their environmental impacts.

Bio 2.2.2 Explain how the use, protection and conservation of natural resources by humans impact the environment from one generation to the next.

OA6.1.1 Explain how humans can have a positive impact on natural resources.

These standards will be addressed during our debate when we are discussing what things they feel are important and how they can be addressed. They will also be addressed when students are doing research about sustainability and conservation practices in their local and global environments.