



NCSCOS Standards Alignment

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Overview

The Coastal Regional Solid Waste Management Authority was formed in 1990 as a partnership between Carteret, Craven, and Pamlico counties.

The name was shortened in 2008 to the Coastal Environmental Partnership, or CEP. CEP's purpose is to provide an environmentally sound, cost effective system of solid waste disposal for the citizens of the three member counties.

The Coastal Environmental Partnership is a public authority, governed by a 7 member Board of Directors appointed by the County Commissioners of the member counties.

This document contains standards from the North Carolina Standard Course of Study for both Science and Social Studies. Educational programs can be designed to focus on any of the grade levels and standards encompassed in this document.

Field Trips

Tours of the Tuscarora Landfill facility can be arranged for school groups. Tours begin with an educational presentation¹ that can include, but is not limited to:

- Landfill construction
- Electricity from landfill gas/methane
- Leachate collection and treatment
- Reduce, Reuse, Recycle
- Compost and mulch
- Household hazardous waste
- Local government units

Following the presentation, the tour will go out onsite and see first-hand how solid waste is managed and the steps taken to ensure the environment is protected.

Contact

To schedule a guided tour of the Tuscarora Landfill, or an in-house presentation at your facility, contact Somer Peede, Outreach Coordinator at 252-633-1564, or at somer@crswma.com.

¹ Educational presentations can be general, or catered to desired instructional focus. Please make requests in advance by emailing somer@crswma.com

Science Standards - Elementary

Prepared for 2010 NCSCOS Science Standards

Kindergarten
K.P.2 Understand how objects are described based on their physical properties and how they are used.
Grade 1
1.P.1 Understand how forces (pushes or pulls) affect the motion of an object. 1.E.2 Understand the physical properties of Earth materials that make them useful in different ways. 1.L.1 Understand characteristics of various environments and behaviors of humans that enable plants and animals to survive.
Grade 2
<i>No direct correlating standards.</i>
Grade 3
3.L.2 Understand how plants survive in their environments.
Grade 4
4.P.3 Recognize that energy takes various forms that may be grouped based on their interaction with matter. 4.L.1 Understand the effects of environmental changes, adaptations, and behaviors that enable animals (including humans) to survive in changing habitats.
Grade 5
5.L.2.2 Classify organisms within an ecosystem according to the function they serve: producers, consumers, or decomposers. 5.L.2.2 Infer the effects that may result from the interconnected relationship of plants and animals to their ecosystem. 5.G.1.2 Explain the positive and negative effects of human activity on the physical environment of the United States, past and present.

Science Standards - Middle Grades

Prepared for 2010 NCSCOS Science Standards

Grade 6

6.E.2 Understand the structure of the earth and how interactions of constructive and destructive forces have resulted in changes in the surface of the Earth over time and the effects of the lithosphere on humans.

- **6.E.2.4** Conclude that the good health of humans requires: monitoring the lithosphere, maintaining soil quality, and stewardship.

Grade 7

7.E.1 Understand how the cycling of matter (water and gasses) in and out of the atmosphere relates to Earth's atmosphere, weather, and climate, and the effects of the atmosphere on humans.

- **7.E.1.6** Conclude that the good health of humans requires: monitoring the atmosphere, maintaining air quality, and stewardship.

Grade 8

8.P.2 Explain the environmental implications associated with the various methods of obtaining, managing, and using energy resources.

- **8.P.2.1** Explain the environmental consequences of the various methods of obtaining, transforming, and distributing energy.
- **8.P.2.2** Explain the implications of the depletion of renewable and nonrenewable energy resources and the importance of conservation.

8.E.1 Understand the hydrosphere and the impact of humans on local systems and the effects of the hydrosphere on humans.

- **8.E.1.4** Conclude that the good health of humans requires: monitoring the hydrosphere, water quality standards, methods of water treatment, maintaining safe water quality, and stewardship.

Science Standards - High School

Prepared for 2010 K-12 NCSCOS Science Standards

Earth and Environmental Science

EEn.2.5 Understand the structure of and processes within our atmosphere.

- EEn.2.5.5 Explain how human activities affect air quality.

EEn.2.6 Analyze patterns of global climate change over time.

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

EEn.2.8 Evaluate human behaviors in terms of how likely they are to ensure the ability to live sustainably on Earth.

- EEn.2.8.1 Evaluate alternative energy technologies for use in North Carolina.
- EEn.2.8.4 Evaluate the concept of “reduce, reuse, recycle” in terms of impact on natural resources.

Additional Information: Career and Technical Education (CTE)

Coastal Environmental Partnership can provide tours and presentations focusing on several CTE program areas and career paths, including to but not limited to:

- Trade, Technology, Engineering, and Industrial Education (TTE&I)
 - Drafting Engineering
- Agricultural Education
 - Natural Resources Systems
 - Power, Structural, and Technical Systems

Social Studies Standards - Elementary

Prepared for 2021 K-12 NCSCOS Social Studies Standards

Kindergarten
K.C&G.1 Understand that people work together to create and follow rules. K.G.2 Understand interactions between humans and the environment. K.H.1 Understand change over time.
Grade 1
1.C&G.1 Understand how people engage with and participate in the community. 1.E.1 Understand the role of basic economic concepts in the decisions people make. 1.G.2 Understand interactions between humans and the environment in different places and regions around the world. 1.H.1 Understand how people and events have changed society over time.
Grade 2
2.G.1 Understand how the availability of resources impacts economic decisions.
Grade 3
3.C&G.1 Understand the structure and function of state and local government.
Grade 4
4.C&G.1 Understand the role of citizens in local and state government. 4.H.1 Understand the role of various people, events, and ideas in shaping North Carolina.
Grade 5
5.H.1.3 Explain the ways in which revolution, reform, and resistance have shaped the United States.

