

Correlation to North Carolina 8th Grade Standards

8th Grade Social Studies

8.H.3.2 Explain how changes brought about by technology and other innovations affected individuals and groups in North Carolina and the United States (e.g. advancements in transportation, communication networks and business practices).

8.H.3.3 Explain how individuals and groups have influenced economic, political and social change in North Carolina and the United States.

8.H.3.4 Compare historical and contemporary issues to understand continuity and change in the development of North Carolina and the United States.

8th Grade Science

8.E.1.1 Explain the structure of the hydrosphere including:

- Water distribution on earth
- Local river basins and water availability

8.E.1.2 Summarize evidence that Earth's oceans are a reservoir of nutrients, minerals, dissolved gases, and life forms:

- Estuaries
- Marine ecosystems
- Upwelling
- Behavior of gases in the marine environment
- Value and sustainability of marine resources
- Deep ocean technology and understandings gained

8.E.1.3 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
- Bio-indicators

8.E.1.4 Conclude that the good health of humans requires:

- Monitoring of the hydrosphere
- Water quality standards
- Methods of water treatment
- Maintaining safe water quality
- Stewardship

Middle and High School Technology Standards Addressed

TT.1.1 Select appropriate technology tools to gather data and information (e.g., Web-based resources, e-books, online communication tools, etc.).

TT.1.2 Select appropriate technology tools to organize data and information (e.g., word processor, database, spreadsheet, graphic organizer, audio and visual recording, online collaboration tools, etc.).

TT.1 Use technology and other resources for the purpose of accessing, organizing, and sharing information.

TT.1.3 Select appropriate technology tools to present data and information effectively (multimedia, audio and visual recording, online collaboration tools, etc.)

8th Grade English Language

CCSS.ELA-Literacy.W.7.2 Write informative/explanatory texts to examine a topic and convey ideas, concepts, and information through the selection, organization, and analysis of relevant content.

CCSS.ELA-Literacy.W.7.2a Introduce a topic clearly, previewing what is to follow; organize ideas, concepts, and information, using strategies such as definition, classification, comparison/contrast, and cause/effect; include formatting (e.g., headings), graphics (e.g., charts, tables), and multimedia when useful to aiding comprehension.

CCSS.ELA-Literacy.W.7.2b Develop the topic with relevant facts, definitions, concrete details, quotations, or other information and examples.

CCSS.ELA-Literacy.W.7.2c Use appropriate transitions to create cohesion and clarify the relationships among ideas and concepts.

CCSS.ELA-Literacy.W.7.2d Use precise language and domain-specific vocabulary to inform about or explain the topic.

CCSS.ELA-Literacy.W.7.2e Establish and maintain a formal style.

CCSS.ELA-Literacy.W.7.2f Provide a concluding statement or section that follows from and supports the information or explanation presented.

CCSS.ELA-Literacy.W.7.6 Use technology, including the Internet, to produce and publish writing and link to and cite sources as well as to interact and collaborate with others, including linking to and citing sources.

8th Grades Arts/Music

8.CR.1.1 Understand the role of music in North Carolina and the United States in relation to history and geography.

8.CR.1.2 Understand the relationships between music and concepts from other areas.

8.CR.1 Understand global, interdisciplinary, and 21st century connections with music.