

Reading the Signs: a Changing Climate in the Chesapeake

APPENDIX B: Maryland VSC, Grade 8

People and Place

Social Studies

Standard 2.0

Topic A: Elements of Culture

1. b - Describe how the colonies developed into diverse states reflecting various cultural elements.

Topic B: Cultural Diffusion

1. a - Describe the effects of cultural exchange and interactions amongst Europeans, Africans, and Native Americans on the development of the United States.

Standard 3.0

Topic A: Using Geographic Tools

1. a - Use thematic maps to locate places and describe the human and physical characteristics, such as settlement patterns, migration, population density, transportation and communication networks.
1. b - Explain interrelationships among physical and human characteristics that shape the nation.
1. c - Analyze thematic maps to determine demographic and economic information about a region.

Topic B: Geographic Characteristics of Places and Regions

1. a - Analyze how geographic characteristics influenced the location and development of economic activity.

Topic D: Modifying and Adapting the Environment

1. a - Analyze the trade-offs of using resources to pursue economic opportunities v. preserving the environment.
1. b - Explain the consequences of modifying the environment.
 1. c - Identify and explain land use issues that illustrate the conflict between economic growth and using the environment.

Standard 6.0

Topic A: Read to Learn and Construct Meaning about Social Studies

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1. Use appropriate strategies and opportunities to increase understandings of social studies vocabulary
 1. a - Acquire and apply new vocabulary through investigating, listening, independent reading and discussing a variety of print and non-print sources
 1. b - Identify and use new vocabulary acquired through study of relationships to prior knowledge and experiences
 1. c - Use context clues to understand new social studies vocabulary
 1. d - Use new vocabulary in speaking and writing to gain and extend content knowledge and clarify expression
2. Use strategies to prepare for reading (before reading)
 2. a - Identify the characteristics of informational texts, such as print features, graphic aids, informational aids, organizational aids, and online features
 2. b - Preview the text by examining features, such as the title, pictures, maps, illustrations, photographs, charts, timelines, graphs, and icons
 2. c - Set a purpose for reading the text
 2. d - Ask questions and make predictions about the text
 2. e - Make connections to the text using prior knowledge and experiences
3. Use strategies to monitor understanding and derive meaning from text and portions of text (during reading)
 3. a - Identify and use knowledge of organizational structures, such as chronological order, cause/effect, main ideas and details, description, similarities/differences, and problem/solution to gain meaning
 3. b - Reread slowly and carefully, restate, or read on and revisit difficult parts
 3. c - Use a graphic organizer or another note-taking technique to record important ideas or information
 3. d - Look back through the text to search for connections between and among ideas
 3. e - Make, confirm, or adjust predictions about the text
 3. f - Periodically summarize or paraphrase important ideas while reading
4. Use strategies to demonstrate understanding of the text (after reading)
 4. d - Distinguish between facts and opinions
 4. e - Explain whether or not the author's opinion is presented fairly
 4. f - Explain what is not directly stated in the text by drawing inferences

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- 4. g - Confirm or refute predictions made about the text to form new ideas
- 4. h - Connect the text to prior knowledge or personal experiences
- 4. i - Draw conclusions and make generalizations based on the text, multiple texts, and/or prior knowledge

Topic F. Analyze Social Studies Information

1. Interpret information from primary and secondary sources

- 1. a - Interpret information in maps, charts and graphs
- 1. b - Interpret information from field studies and surveys
- 1. c - Analyze a document to determine point of view
- 1. d - Analyze the perspective of the author to determine if the document or topic is historically significant
- 1. e - Identify bias and prejudice

2. Evaluate information from a variety of sources

- 2. a - Compare information from a variety of sources
- 2. b - Compare information to prior knowledge
- 2. c - Determine the reliability of the document
- 2. d - Compare ideas, models, systems, and perspectives

3. Synthesize information from a variety of sources

- 3. a - Recognize relationships in and among ideas or events, such as cause and effect, sequential order, main idea, and details
- 3. b - Reconstruct the arguments of issues or events
- 3. c - Assess the costs and benefits of alternatives
- 3. d - Modify understandings of social studies concepts and trend
- 3. e - Verify or change prior understandings based on new information

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What's in a Shell?

Social Studies

Standard 2.0

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2. a - Identify the characteristics of informational texts, such as print features, graphic aids, informational aids, organizational aids, and online features
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1. e - Identify bias and prejudice
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The Oysters' the Thing

Social Studies

Standard 2.0

Topic A: Elements of Culture

1. Analyze how America became a diverse society

- 1. b - Describe how the colonies developed into diverse states reflecting various cultural elements.

Topic B: Cultural Diffusion

1. Analyze how America continued to evolve into a society consisting of diverse cultures, customs, and traditions.

- 1. a - Describe the effects of cultural exchange and interactions amongst Europeans, Africans, and Native Americans on the development of the United States.

Standard 3.0

Topic A: Using Geographic Tools

1. Use geographic tools to analyze geographic issues and problems prior to 1877

- 1. b - Explain interrelationships among physical and human characteristics that shape the nation.

Topic B: Geographic Characteristics of Places and Regions

1. Analyze how geographic characteristics influenced the location and development of regions in the United States prior to 1877

- 1. a - Analyze how geographic characteristics influenced the location and development of economic activity.

Topic D: Modifying and Adapting the Environment

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1. Analyze why and how people in the United States modify their natural environment and the impact of those modifications
 1. a - Analyze the trade-offs of using resources to pursue economic opportunities v. preserving the environment.
 1. b - Explain the consequences of modifying the environment.
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- 3. d - Modify understandings of social studies concepts and trend
- 3. e - Verify or change prior understandings based on new information

Science

Standard 1.0

Topic A - Constructing Knowledge

- 1. Design, analyze, or carry out simple investigations and formulate appropriate conclusions based on data obtained or provided.
 - 1. a - Explain that scientists differ greatly in what phenomena they study and how they go about their work.
 - 1. b - Develop the ability to clarify questions and direct them toward objects and phenomena that can be described, explained, or predicted by scientific investigations.
 - 1. d - Locate information in reference books, back issues of newspapers, magazines and compact disks, and computer databases.
 - 1. f - Give examples of when further studies of the question being investigated may be necessary.
 - 1. h - Use mathematics to interpret and communicate data.
 - 1. i - Explain why accurate recordkeeping, openness, and replication are essential for maintaining an investigator's credibility with other scientists and society.

Topic B - Applying Evidence and Reasoning

- 1. Review data from a simple experiment, analyze the data and construct a logical argument about the cause and effect relationships in the experiment.
 - 1. a - Verify the idea that there is no fixed set of steps all scientists follow, scientific investigations usually involve the collection of relevant evidence, the use of logical reasoning, and the application of imagination in devising hypotheses and explanations to make sense of the collected evidence.
 - 1. c - Explain that even though different explanations are given for the same evidence, it is not always possible to tell which one is correct.
 - 1. d - Describe the reasoning that leads to the interpretation of data and conclusions drawn.
 - 1. e - Question claims based on vague statements or on statements made by people outside their area of expertise.

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Topic C - Communicating Scientific Information

1. Develop explanations that explicitly link data from investigations conducted, specific readings and, when appropriate, contributions from historical discoveries.
 1. a - Organize and present data in tables and graphs and identify relationships they reveal.
 1. f - Participate in group discussions on scientific topics by restating or summarizing accurately what others have said, asking for clarification or elaboration, and expressing alternative positions.
 1. g - Recognize that important contributions to the advancement of science, mathematics, and technology have been made by different kinds of people, in different cultures, at different times.

Standard 6.0

Topic B - Environmental Issues

1. Recognize and explain how human activities can accelerate or magnify many naturally occurring changes.
 1. a - Based on data from research identify and describe how natural processes change the environment.
 1. b - Identify and describe how human activities produce changes in natural processes.

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As the Tree Turns

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