

Exploring Your Environment Content Standards

Level 3: Eco Actions

Grades 11-12

Project Area Skill refers to the subject matter based skill which youth demonstrate in relation to the correlating content standard.

Objectives:

Arts-

Content Standard 3: Integrate understanding of visual and performing arts by seeking connections and parallels among arts disciplines as well as all other content areas.

Visual Art Benchmarks: 9-12: A

Project Area Skill: The youth will create a collage of the different factors that influence them from nature. In doing this activity they will understand how art can help to portray scientific ideas.

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Objectives:

Career Readiness-

- 1. Students will identify their career interests and aptitudes to develop an educational plan which supports personal career goals.**

Benchmarks: 9-12: A,E

Project Area Skill: By participating in a variety of experiments to learn about their environment the youth will learn skills and determine interests in the career field of environmental science.

- 2. Students will utilize and manage resources effectively to produce quality services and products.**

Benchmarks: 9-12: A,B

Project Area Skill: The youth will set goals to complete activities in the workbook within a given period of time. Furthermore, they will learn about some of the experimental methods scientists use to observe their environment.

- 3. Students will demonstrate the technological knowledge and skills required for future careers.**

Benchmarks: 9-12: A

Project Area Skill: The youth will use more advanced computer skills as they use the internet to find aerial photos of their community and observe how urban sprawl has changed the area over time.

4. Students will develop and demonstrate responsible and ethical workplace behaviors.

Benchmarks: 9-12: A,B,C

Project Area Skill: The youth will demonstrate positive behavior as they work in groups to learn about soil, water, plants, insects etc. Furthermore the youth will learn about environmental ethics and how to make the right decisions.

5. Students will develop effective leadership, interpersonal, and team skills.

Benchmarks: 9-12: A,C

Project Area Skill: The youth will work in groups to complete various activities. They will work cooperatively and demonstrate positive interaction with each other as they explore the exciting field of environmental science.

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Language Arts-

- 1. Reading and Listening for Comprehension: students will apply strategies and skills to comprehend information that is read, heard, and viewed.**

Benchmarks: 9-12: A,B,C,D

Project Area Skill: The youth will read about topics relating to environmental science in their workbook. They will use the information they have read and apply it to their activities. Furthermore, the youth will learn and apply new vocabulary words such as diurnal and crepuscular to their discussions with the group.

- 2. Writing and Speaking for Expression: students will communicate effectively through speaking and writing.**

Benchmarks: 9-12: A,C

Project Area Skill: The youth will create journals and charts to record their observations and discoveries in environmental science. Furthermore, the youth will practice writing metaphors about nature as they use their senses to describe the world around them.

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Objectives:

Science-

Strand I: Scientific Thinking and Practice

Standard I: Understand the processes of scientific investigations and use inquiry and scientific ways of observing, experimenting, predicting, and validating to think critically.

9-12 Benchmarks: I,II,III

Project Area Skill: The youth will conduct several investigations as they pertain to the soil and natural resources. They will understand the effects of erosion, catch and classify insects and use tools to measure water quality. Moreover the youth will gain insight to human impact on natural resources through their experiments.

Strand II: Content of Science

Standard II: Life Science: Understand the properties, structures, and processes of living things and the interdependence of living things and their environments.

9-12 Benchmarks: I,II

Project Area Skill: The youth will learn about ecosystems and the important weavings of the food web. They will also understand human's impact on soil erosion by conducting a variety of experiments. Furthermore the youth will identify biomes by understanding how climates help to make the borders for a biome.

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Objectives:

Social Studies-

- 2. Geography: students understand how physical, natural, and cultural processes influence where people live, the ways in which people live, and how societies interact with one another ad their environments.**

Benchmarks: 9-12: A,B

Project Area Skill: The youth will study aerial photography to understand how their community has changed over time. They will also read maps to determine what biome they live in and observe how climate change creates the boundaries for various types of biomes.