

Exploring Your Environment Content Standards

Level 1: Eco-Wonders

Grades 5-7

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

Objectives:

Career Readiness-

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

Benchmarks: 5-8: A,C,D

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: 5-8: 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 the experimental methods scientists use to observe their environment and produce quality products such as pop-bottle ecosystems and pollution catchers.

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

Benchmarks: 5-8: A,B,D

Project Area Skill: The youth will demonstrate basic computer skills as they visit the 4-H website to learn more about their environmental studies projects. Furthermore, they will use tools such as scissors and silicone glue to construct experimental models.

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

Benchmarks: 5-8: A,B,C

Project Area Skill: The youth will demonstrate positive behavior as they work in groups to learn about soil, water, and plants. Furthermore the youth will learn about environmental ethics and how they can help protect the planet.

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

Benchmarks: 5-8: B,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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Objectives:

Language Arts-

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

Benchmarks: 5-8: 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 ecosystem and niche to their discussions with the group.

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

Benchmarks: 5-8: A,B,C

Project Area Skill: The youth will create journals and charts to record their observations and discoveries in environmental science.

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Objectives:

Math-

- 1. Measurement: students will understand measurement systems and applications.**

Benchmarks: 5-8: B

Project Area Skill: The youth will use the appropriate measurement for the activity specified. They will measure air pollution, wind speed and precipitation by using tools they created themselves.

- 2. Data Analysis and Probability: students will understand how to formulate questions, analyze data, and determine probabilities.**

Benchmarks: 5-8: A,B,D

Project Area Skill: The youth will record observed data in charts to make reference to as they form conclusions based on the activity.

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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.

5-8 Benchmarks: I,II,III

Project Area Skill: The youth will conduct several investigations dealing with carbon nitrogen ratios and ecosystems. They will learn about the topics by reading information in their workbook, and then go about investigating the topics by recording their observations in charts. Furthermore, the youth will utilize the scientific method as they question and conclude their investigations.

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.

5-8 Benchmarks: I,II

Project Area Skill: The youth will learn about ecosystems as they study animal habitats, niches, and cycles. They will also study animal characteristics and how certain creatures avoid predators by using camouflage.