

Forests of Fun Content Standards

“Explore the Deep Woods” Forestry Youth Activity Guide Grades 8-12

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

Objective:

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,B,C,D; 9-12: A,C,E

Project Area Skill: The youth will participate in activities which will allow them to explore careers in forestry. They will write their interests and interview different business personal from the forestry field and learn about their career path so the youth can identify what skills and education are needed to pursue similar careers.

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

Benchmarks: 5-8: B

Project Area Skill: The youth will interview forestry professionals in their area. Through the interview the youth will identify the skills and educational requirements needed to obtain such forestry jobs.

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

Benchmarks: 5-8: A,B; 9-12: B,C

Project Area Skill: The youth will use computer and internet skills to evaluate maps of their state, learn about National Arbor Day, and explore the timber industry. They will learn to record, and understand data to answer comprehensive questions.

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

Benchmarks: 5-8: A,B; 9-12: A,B,C

Project Area Skill: The youth will demonstrate positive social behaviors while engaging in interviews with professionals in the forestry field. They will express responsibility while working with other members in their forestry club and individually to complete goal oriented activities.

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

Benchmarks: 5-8: C,D; 9-12: A,C,D

Project Area Skill: The youth will develop and demonstrate the above skills by connecting with members of their community and club to learn about themselves and the field of forestry. They will understand the importance of teamwork and interpersonal skills as they explore the many aspects of science in the field of forestry.

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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: 5-8: A,B,C,D; 9-12: A,B

Project Area Skill: The youth will evaluate text, research the internet, interview members of their community and write short essays describing their findings. They will also utilize new vocabulary presented in their reading material by written and vocal discussions.

- 2. Writing and speaking for expression: Students will communicate effectively through speaking and writing.**

Benchmarks: 5-8: A,C 9-12: A,C

Project Area Skill: The youth will demonstrate effective writing and speaking skills by writing essays and interviewing professionals in their community. They will use vocabulary introduced to them in text in their book and internet to persuade their audience by answering questions listed after each activity.

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Math-

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

Benchmarks: 5-8: A,C

Project Area Skills: The youth must analyze data presented on the internet and in the materials provided for them and determine their probabilities through questions asked at the end of their activities. They must formulate questions for interview situations analyze the data and write conclusive essays. They will also learn the history of a community forest and map it out along a timeline.

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Science: Strand: Scientific Thinking and Practice: Content Standard I:

- 1. Understand the processes of scientific investigations and use inquiry and scientific ways of observing, experimenting, predicting, and validating to think critically.**

5-8 Benchmark II: Understand the process of scientific investigation and how scientific inquiry results in scientific knowledge.

Project Area Skill: The youth will explore scientific investigation by participating in various activities in their workbook. They will learn to identify trees by observing both leaves and bark, classify tree “fruits” and identify valuable traits in both hardwoods and conifers. They must go out into the field to record and analyze data to formulate into answers to validate their questions. The projects will require the youth to think critically through comprehensive questions at the end of each activity.

Science: Strand: Content of Science: Content Standard I: Life Science:

- 1. Understand the properties, structures, and processes of living things and the interdependence of living things and their environments.**

5-8 Benchmark I: Explain the diverse structures and functions of living things and the complex relationships between living things and their environments.

9-12 Benchmark I: Understand how the survival of species depends on biodiversity and on complex interactions, including the cycling of matter and the flow of energy.

Project Area Skill: The youth will examine the interdependence of living things in forests. They will learn about forest biomes, fruits produced by trees, and animals dependent on forests. They will explore the

importance in the biodiversity of the forests not only in the US but around the world and understand how temperature is a key component in determining where the biomes occur. They will learn about the interdependence of humans and forests and learn what is permitted based on ownership of the land.

5-8 Benchmark II: Understand how traits are passed from one generation to the next and how species evolve.

Project Area Skill: The youth will look at genetic inheritance through biological evolution in trees, and how trees have improved over time due to selective cutting.

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Objective:

Social Studies: Strand: History: Content Standard I:

- 1. Students are able to identify important people and events in order to analyze significant patterns, relationships, themes, ideas, beliefs, and turning points in New Mexico, United States, and world history in order to understand the complexity of the human experience.**

- D. 5-8: Benchmark II: Research historical events and people from a variety of perspectives.**

Project Area Skill: The youth will learn about local history by researching historical trees. They will interview historians and other members of their community to learn about certain trees and their historical significance. The youth will also have write about a historical event that they find most significant in their lifetime.

Social Studies: Strand: Geography: Content Standard II:

- 1. 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 and their environments.**

- A. 5-8: Benchmark II: Analyze and evaluate the characteristics and purposes of geographic tools, knowledge, skills and perspectives and apply them to explain the past, present, and future in terms of patterns, events, and issues.**

Project Area Skill: The youth will use and create maps to understand the community around them. They will use world maps to learn about forest biomes. They will also create charts to help communicate information that they have gathered for certain activities.

B. 5-8: Benchmark II: Explain the physical and human characteristics of places and use this knowledge to define regions, their relationships with other regions, and their patterns of change.

9-12: Benchmark II: Analyze natural and man-made characteristics of worldwide locales; describe regions, their interrelationships, and patterns of change.

Project Area Skill: The youth will learn about regions around the world by looking at maps and understanding how different regions have different forest biomes. They will also learn about how different cultures around the world use forest products to suit their lifestyles.

E. 5-8: Benchmark II: Understand the effects of interactions between human and natural systems in terms of changes in meaning, use, distribution, and relative importance of resources.

9-12: Benchmark II: Analyze and evaluate the effects of human and natural interactions in terms of changes in meaning, use, distribution, and importance of resources in order to predict our global capacity to support human activity.

Project Area Skill: The youth will learn about how different cultures use timber products for different things. They will also compare the similarities and differences in how wood is used in the US and 3 other countries.