

## **Forests of Fun Content Standards**

### **“Reach for the Canopy: Forestry Youth Activity Guide Grades 6-8**

**\*Project Area Skill (PAS) 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,D**

**Project Area Skill: The youth will participate in activities that can be related into natural resource fields. They will determine the circumference of trees, record observational data and participate in other activities utilized by professionals in the forestry field.**

- 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 identify goals of learning for the purpose of enhancing interest and reading skills. They have to evaluate their knowledge from a list of subjects before and after their workbook is completed. They must prioritize their time to complete their assignments within 3 years in order to gain their certificate.**

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

**Benchmarks: 5-8: A,B**

**Project Area Skill: The youth will use the internet to find a map of their state provided by the DNR for one of their workbook activities. They will also use instruments utilized by professionals in the natural resources field such as measuring tape to determine the DBH of a tree. Activities such as these give the youth a hands on approach for learning about the skills required for the timber industry.**

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

**Benchmark: 5-8: A,B,C**

**Project Area Skill: The youth will have to work with other group members and be responsible for the work accomplished. They will have to interact with their peers and leaders to gain full knowledge of the subject and answer the questions at the end of the activity.**

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

**Benchmark: 5-8: C, D**

**Project Area Skill: The youth will work as a team in some activities to acquire data and discuss what is found. They will have to take on leadership roles and designate other team members to take on responsibilities such as documenting observations and measurements in order to accomplish activities in the workbook.**

## **Forests of Fun Content Standards**

### **“Reach for the Canopy: Forestry Youth Activity Guide Grades 6-8**

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

**Objective:**

#### **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: B,C,D**

**Project Area Skill: The youth will apply “tree talk” and “budding knowledge” found in their text and the information shared by their leaders and peers to evaluate questions on activities in their workbooks. They will apply reading strategies by writing what they want to know before starting the activity guide and then evaluating their knowledge upon completion of the book.**

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

**Benchmarks: 5-8: A,C**

**Project Area Skill: The youth will have to communicate their findings by persuasive writing and conversing with their leader and peers. They will have to defend their ideas with information presented in the budding knowledge section in their workbook.**

## Forests of Fun Content Standards

### **“Reach for the Canopy: Forestry Youth Activity Guide Grades 6-8**

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

**Objective:**

**Math-**

- 1. Number and Operations: Students will understand numerical concepts and mathematical operations.**

**Benchmarks: 5-8: C**

**Project Area Skill: The youth will add, multiply and divide whole numbers to calculate various data in their workbook. They will determine the circumference of a tree and use multiplication to determine the board foot volume. They will also use addition and deductive reasoning to determine the number of trees needed to keep the air clean for towns listed in their activity book.**

- 2. Measurement: Students will understand measurement systems and applications.**

**Benchmarks: 5-8: A,B**

**Project Area Skill: The youth will use measuring tape to determine the circumference of a tree and also measure to the standard breast height of a tree. They will have to estimate the height of the useable section of trunk and perform a calculation to determine the board feet of individual trees.**

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

**Benchmarks: 5-8: C,D**

**Projects Area Skill: The youth will analyze data presented to them in their workbooks and demonstrate their knowledge by making predictions about the results of their activities.**

## **Forests of Fun Content Standards**

### **“Reach for the Canopy: Forestry Youth Activity Guide Grades 6-8**

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

**Objective:**

**Science-**

**Strand I: Scientific Thinking and Practice**

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

**5-8 Benchmarks: III**

**Project Area Skill: The youth must use measurement tools and mathematical equations to determine the outcome of experiments facilitated by the workbook. They must observe and calculate the board feet that one tree can produce. They must also use addition to determine the number of trees it takes to clean the air in designated towns.**

**Strand II: Content of Science**

**Strand I: Physical Science: Understand the structure and properties of matter, the characteristics of energy, and the interactions between matter and energy.**

**5-8 Benchmarks: I,II**

**Project Area Skill: The youth will work on activities which explain how fire affects forests. They will examine different fuels that the forest provides for potential fires. They will also learn about how the sun plays a vital role in tree growth.**

**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,III**

**Project Area Skill: The youth will examine a cross section of a leaf and label the different layers of cells. They will learn about how trees use photosynthesis to produce glucose. The youth will also follow the life cycle of a tree and understand how traits can be passed down to new generations through seeds.**

## **Forests of Fun Content Standards**

### **“Reach for the Canopy: Forestry Youth Activity Guide Grades 6-8**

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

**Objective:**

**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 and their environments.**

**Benchmarks: C,F**

**Project Area Skill: The youth will analyze maps of their state via the internet provided by the DNR. From the map they will sketch their state, their home in the state, and the state forests, understanding both human and natural characteristics of their state. By understanding how trees clean the air, the youth will also determine the impact natural resources have on daily life.**