
ENVIRONMENTAL RESOURCES

LESSON PLAN LIBRARY

UNIT A: NATURAL RESOURCES

1. Introduction to Natural Resources

Lesson 1—Exploring Natural Resources

Lesson 2—Understanding Ecology and Ecosystems

Lesson 3—Understanding Human Demands on Natural Resources

Lesson 4—Comprehending Natural Resource Conservation

Lesson 5—Exploring Careers in Natural Resources

Lesson 6—Understanding Recycling and its Relationship to the Environment

2. Soil

Lesson 1—Understanding the Importance of Soil

Lesson 2—Determining Land Use

Lesson 3—Determining the Nature of Soil

Lesson 4—Understanding Soil Formation

Lesson 5—Understanding Soil Color

Lesson 6—Understanding Soil Texture and Structure

Lesson 7—Explaining a Soil Profile

Lesson 8—Understanding Moisture Holding Capacity

Lesson 9—Understanding Soil Degradation

Lesson 10—Understanding Soil Erosion and Management Practices

3. Water

Lesson 1—Understanding the Water Cycle and Its Importance to the Environment

Lesson 2—Determining Uses of Water

Lesson 3—Identifying Water Sources and Quality Standards

Lesson 4—Identifying and Reducing Water Pollution

Lesson 5—Maintaining Watersheds

Lesson 6—Conducting Water Quality Tests

Lesson 7—Tracking Groundwater Contamination

4. Air

Lesson 1—Defining Air Pollution and its Effect on Humans

Lesson 2—Examining Industrial Air Pollution

Lesson 3—Monitoring Air Quality

5. Outdoor Recreation

Lesson 1—Understanding Outdoor Recreational Enterprises

Lesson 2—Managing Outdoor Recreational Facilities

Lesson 3—Managing Agritourism Enterprises

Lesson 4—Understanding the National Park System

Lesson 5—Practicing Snowmobile Safety

UNIT B: PLANT WILDLIFE MANAGEMENT

1. Introduction to Forestry

Lesson 1—Defining Forests

Lesson 2—Understanding Forest Ecology

Lesson 3—Recognizing the Importance of Forests

Lesson 4—Recognizing Important Tree Species and Their Products

2. Tree Growth and Development

Lesson 1—Examining the Structures of a Tree

Lesson 2—Understanding the Growth and Decline of Forest Trees

Lesson 3—Identifying Diseases and Pests of Forest Trees

3. Forest Management

Lesson 1—Identifying the Role of Government in Forest Management

Lesson 2—Measuring Trees

Lesson 3—Measuring Timber Stands

Lesson 4—Understanding the Role of Fire in Forest Management

Lesson 5—Harvesting Forest Trees

Lesson 6—Examining Reforestation Practices

Lesson 7—Applying Safe Practices in Forest Management

4. Forest Products

Lesson 1—Identifying Forest Products and Uses

Lesson 2—Understanding the Characteristics of Wood

Lesson 3—Processing Forest Products

Lesson 4—Protecting and Preserving Wood

5. Urban Forestry

Lesson 1—Defining Urban Forestry

Lesson 2—Selecting Trees for Urban Growing Conditions

Lesson 3—Transplanting Trees

Lesson 4—Pruning Trees in Urban Settings

6. Prairie Ecosystems

Lesson 1—Defining Prairies

Lesson 2—Understanding the Importance of Prairies

Lesson 3—Exploring Prairie Ecology

Lesson 4—Establishing Prairies

Lesson 5—Maintaining Prairies

7. Wetlands

Lesson 1—Exploring Wetlands

Lesson 2—Determining the Importance of Wetlands

Lesson 3—Understanding Wetland Ecology

Lesson 4—Establishing Wetlands

Lesson 5—Maintaining Wetlands

UNIT C: ANIMAL WILDLIFE MANAGEMENT

1. Introduction to Wildlife

Lesson 1—Exploring the History and the Importance of Wildlife Conservation

Lesson 2—Describing Species Endangerment

Lesson 3—Identifying Problems Caused by Wildlife

2. Wildlife Biology and Ecosystems

Lesson 1—Understanding Life Processes

Lesson 2—Understanding the Food Chain and Natural Selection

Lesson 3—Defining Wildlife Habitat and Recognizing Its Importance

Lesson 4—Conserving Wildlife and Wildlife Habitat

Lesson 5—Creating Wildlife Habitat

3. Fish Management

Lesson 1—Exploring the Aquaculture Industry

Lesson 2—Understanding the Environmental Requirements for Fish

Lesson 3—Describing Nutritional Requirements of Fish

Lesson 4—Identifying Fish Digestion and Feeding

Lesson 5—Propagating and Selling Fish

Lesson 6—Identifying Fish Facilities and Stocking Rates

Lesson 7—Diagnosing Fish Diseases

Lesson 8—Harvesting, Holding, and Transporting Fish

4. Game Birds Management

Lesson 1—Identifying and Classifying Game Birds

Lesson 2—Identifying Foods and Environmental Requirements

Lesson 3—Raising Game Birds

Lesson 4—Evaluating Wildlife Habitats

Lesson 5—Managing Wildlife Populations

Lesson 6—Harvesting and Preparing Game Birds

5. Game Animals Management

Lesson 1—Identifying and Classifying Game Animals

Lesson 2—Identifying Foods and Environmental Requirements

Lesson 3—Raising Fur-Bearing Animals

Lesson 4—Evaluating Wildlife Habitats

Lesson 5—Managing Wildlife Populations

Lesson 6—Harvesting and Preparing Game Animals

6. Safety and Ethics

Lesson 1—Understanding Hunting Safety

Lesson 2—Understanding Hunting Ethics

Lesson 3—Identifying Hunting Equipment

Lesson 4—Examining Boating and Fishing Safety

UNIT D: EMPLOYABILITY IN THE AGRICULTURE INDUSTRY

1. Developing Personal Skills

Lesson 1—Self-Understanding and Assessment

Lesson 2—Developing Human Relations Skills in the Workplace

2. Developing Communication Skills

Lesson 1—Introduction to Communication

Lesson 2—Understanding Effective Communication Techniques

Lesson 3—Identifying Effective Communication Techniques

Lesson 4—Identifying Effective Speaking Techniques

Lesson 5—Organizing and Presenting a Persuasive Message

Lesson 6—Using Communication Skills in Appropriate Situations

3. Gaining Employment

Lesson 1—Developing Goals

Lesson 2—Obtaining Education for a Job

Lesson 3—Identifying Occupational Competencies

Lesson 4—Finding a Job

Lesson 5—Applying For a Job

Lesson 6—Writing a Resume and Letter of Application

Lesson 7—Succeeding in a Job Interview

Lesson 8—Understanding Conflicts and Their Resolution

UNIT E: DEVELOPING LEADERSHIP SKILLS IN AGRICULTURE

1. Understanding the History and Organization of FFA

Lesson 1—Exploring the History and Organization of FFA

2. Recognizing Opportunities in FFA

Lesson 1—Discovering Opportunities in FFA

Lesson 2—Determining FFA Degrees, Award, and CDEs

3. Developing Leadership Skills

Lesson 1—Understanding FFA Officer Duties and Responsibilities

Lesson 2—Planning and Organizing an FFA Meeting

4. Participating in Community and Government Organizations

Lesson 1—Understanding Youth Clubs and Organizations

Lesson 2—Developing an Awareness for Your Community

UNIT F: SUPERVISED EXPERIENCE IN AGRICULTURE

1. Determining Purposes and Procedures of SAE

Lesson 1—Determining the Benefits of an SAE

Lesson 2—Determining the Kinds of SAE

2. Planning and Developing SAE Programs

Lesson 1—Researching Possible SAE Programs

Lesson 2—Planning Your SAE Programs

Lesson 3—Implementing SAE Programs

3. Expanding My SAE

Lesson 1—Keeping and Using SAE Records

Lesson 2—Making Long Range Plans for Expanding SAE Programs