

Agriculture, Food & Natural Resources
Exploring Agricultural Education (Fourth Grade)
Course Number 01.00140

Overview:

These Georgia Agricultural Education Elementary Standards of Excellence are designed to allow elementary students to explore Agriculture, Food & Natural Resources. Classroom and laboratory activities should include instruction in an organized classroom; collaborative agricultural learning experiences through investigation and inquiry, including laboratory and site-based learning activities; and personal and leadership development opportunities. These elementary agricultural standards are organized under four domains: Agricultural Systems, Foundations of Agriculture, Leadership/Career Readiness and Natural Resource Systems. Each grade level will learn key agricultural topics in these four domains.

In Agricultural Systems, students will investigate and develop an understanding of agricultural systems such as Agricultural Mechanics; Plant Systems; Animal Systems; and/or Food Systems. In Foundations of Agriculture, students will explore and communicate the importance of agriculture and its impact on daily life. In Leadership and Career Readiness, students will develop an understanding of leadership skills and characteristics for career readiness while exploring youth leadership opportunities and careers in agriculture as indicated by the National FFA Organization. In Natural Resource Systems, students will develop and build an understanding of the area of forestry, environmental, wildlife and natural resource systems.

The following is an example of the nomenclature or coding structure for the identification of the standards and elements. Kindergarten example: KLCR1 = Kindergarten Leadership/Career Readiness standard 1. First Grade example: 1FA2 = 1st grade Foundations of Agriculture standard 2. The lowercase bullets under standards further define and clarify the standard and are called elements. For example: 1LCR1a = First Grade Leadership/Career Readiness standard 1, element a.

Employability Skills

Standard 1: Demonstrate employability skills required by business and industry.

1.1 Communicate effectively through writing, speaking, listening, reading, and interpersonal abilities. (HS 1.1)

Person-to-Person Etiquette	Communicating At Work	Listening	Nonverbal Communication	Speaking
Interacting with Co-workers	Improving Communication Skills	Listening Strategies	Communicating Nonverbally	Using Language Carefully
	Effective Oral Communication	Developing a Listening Attitude	Reading Body Language and mixed Messages	One-on-One Conversations
	Effective Written Communication	Show You Are Listening		Small Group Communication
	Effective Nonverbal Skills	Asking Questions		
	Effective Word Use			

1.2 Demonstrate career awareness through the appropriate use of various technologies to learn about opportunities available in the national career clusters. (HS 1.3) (Best suited for grades 3-5)

The Application Process	Interviewing Skills
Providing Information, Accuracy and Double Checking	Preparing for an Interview
Matching Your Talents to a Job	Questions to Ask in an Interview
	Traits Employers are Seeking

1.3 Model work readiness traits required for success in the workplace including integrity, honesty, accountability, punctuality, time management, and respect for diversity. (HS 1.4)

Workplace Ethics	Personal Characteristics	Employer Expectations	Business Etiquette	Communicating at Work
Demonstrating Good Work Ethic	Demonstrating a Good Attitude	Behaviors Employers Expect	Language and Behavior	Handling Anger
Behaving Appropriately	Gaining and Showing Respect	Objectionable Behaviors	Avoiding Gossip	Dealing with Difficult Coworkers
Maintaining Honesty	Demonstrating Responsibility	Building Work Relationships		Dealing with Conflict
Playing Fair	Showing Dependability			
Using Ethical Language	Being Courteous			

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Showing Responsibility	Gaining Coworkers' Trust			
Reducing Harassment	Persevering			
Respecting Diversity	Handling Criticism			
Making Truthfulness a Habit				

1.4 Apply the appropriate skill sets to be productive in a changing, technological, diverse workplace to be able to work independently and apply team work skills. (HS 1.5)

Expected Work Traits	Teamwork	Time Management	Teamwork and Problem Solving (HS 1.2)
Demonstrating Responsibility	Teamwork Skills	Managing Time	Thinking Creatively
Managing Change	Decisions Teams Make	Putting First Things First	Taking Risks
Adopting a New Technology	Team Responsibilities	Overcoming Procrastination	Building Team Communication
	Problems That Affect Teams	Organizing Workspace and Tasks	
	Expressing Yourself on a Team	Staying Organized	
	Giving and Receiving Constructive Criticism		

Agricultural Systems

Agricultural Systems

AFNR-AS: Investigate and develop an understanding of agricultural systems such as Agricultural Mechanics; Plant Systems; Animal Systems; and/or Food Systems.

- 4AS1. Identify basic building tools (e.g., hammer, screwdriver, nail, screw, etc.) and determine proper uses, including safety procedures.
- 4AS2. Identify and assess which simple machine will complete a task (i.e., lever, pulley, wedge, inclined plane, wheel and axle, and screw).
- 4AS3. Design and create an example of a simple machine that can be used to complete an agricultural task.

Foundations of Agriculture

Foundations of Agriculture

AFNR-FA: Explore and communicate the importance of agriculture and its impact on daily life.

- 4FA1. Compare and contrast the past and present importance of agriculture products and by-products in your community and around the world.
- 4FA2. Connect the relationship between weather, the environment, and agriculture.
 - a. Identify the impact weather has on agriculture and how it affects the quality of a crop.
- 4FA3. Infer/Interpret the impact of laws, guidelines, and regulations provided by the government and community partnerships on the agriculture industry.

Leadership and Career Readiness

Leadership and Career Readiness

AFNR-LCR: Develop an understanding of leadership skills and characteristics for career readiness while exploring youth leadership opportunities and careers in agriculture as indicated by the National FFA Organization.

- 4LCR1. Develop and apply verbal and nonverbal communication skills such as public speaking/presentations.
- 4LCR2. Develop an organized argument based on evidence supporting or opposing an agricultural issue.
- 4LCR3. Explore various school and community organizations available for 4th graders to join in local area to develop leadership skills.
- 4LCR4. Explore careers related to the Agriculture Mechanics and Technology industry, such as equipment operators, welders, computer/website programmers, meat processing employees who work on equipment to process animals, tractor service techs, fence builders, ag engineers or ag mechanics teachers.

Natural Resource Systems

Natural Resource Systems

AFNR-NRS: Develop and build an understanding of the area of forestry, environmental and natural resource systems.

- 4NRS1. Identify, investigate, and compare multiple native plant species in Georgia.
 - a. Categorize native vs. invasive plant species in Georgia.
- 4NRS2. Identify, investigate, and compare multiple native animal species in Georgia as herbivore, carnivore, omnivore, and scavenger.
 - a. Categorize native vs. invasive animal species in Georgia.
- 4NRS3. Define a local watershed and how human actions impact water quality.