

Explore Agricultural Careers



FFA.OH.5.3

Time Needed:

- IA – 5 min
- Activity 1 – 20 min
- Activity 2 – 20 min

Materials:

- Public writing surface
- Writing utensil
- FFA.OH.5.3.AS.A – one copy per student
- FFA.OH.5.3.AS.B – one copy per student
- Notebook paper
- Internet access

Objectives:

1. Describe two career pathways of personal interest.
2. Research one career's prerequisites.

Content Outline

1. Describe two career pathways of personal interest.
 - a. What defines career success?
 - b. Have students write a short essay about two careers they believe they could become involved in and experience career success.
2. Research one career's prerequisites.
 - a. Use www.ffa.org and the Internet to discover information about an agriculture-related job of choice.

Interest Approach –

1. Write the following words on the public writing surface:
 - a. Packaging Engineer
 - b. Reporter
 - c. Land Developer
 - d. McDonald's Employee
 - e. Genetic Engineering
 - f. Soil Sciences

2. Discuss what these careers have in common. Allow the class to guess the commonalities. Eventually they should see that these are all careers related to agriculture. More than 22 million careers in America tie to agriculture.

Activity 1 –

1. Ask students to think about the definition of "career success."
2. Have each student to share the answer with an adjacent person.
3. Next, as a whole class, etch out a definition.
 - a. *One possible definition: Continuously demonstrating those qualities, attributes, and skills necessary to succeed in, or further prepare for, a chosen profession while effectively contributing to society.*
4. Pass out FFA.OH.5.3.AS.A and briefly review the wide array of career pathways in agriculture sharing just a few careers in each.
 - a. Agribusiness
 - b. Animal Systems
 - c. Biotechnology
 - d. Environmental Service System
 - e. Food Products and Processing Systems
 - f. Natural Resources Systems
 - g. Plant Systems
 - h. Power, Structural & Technical Systems
5. Ask students to select two careers they would like to learn more about.
 - a. Ask students to write everything they know about each career in paragraph form.

Activity 2 –

1. Have students select one of the two careers from above that they want to learn more about.
2. Allow students to use the Internet and specifically www.ffa.org's Career Explorer to fill in FFA.OH.5.3.AS.B.



Additional Resources:

FFA.OH.5.3.ASSESS

LifeKnowledge Lesson – <http://ffa.learn.com/lifeknowledge>

HS.125 Preparing for the Trip

HS.32 Making Decisions about Career Paths

Ag Careers 101 – <http://ffa.learn.com/lifeknowledge> (e-learning module)



Name: _____

Date: _____

Class: _____

Career Exploration

Directions: Answer the following.

1. Define "career success."

2. List one career related to each of the eight career pathways:

a. Agribusiness:_____

b. Animal Systems:_____

c. Biotechnology:_____

d. Environmental Service System:_____

e. Food Products and Processing Systems:_____

f. Natural Resources Systems:_____

g. Plant Systems:_____

h. Power, Structural & Technical Systems:_____

3. List three skills that relate to almost every career:

a. _____

b. _____

c. _____



Pathways	Animal Systems (Large animals, small animals, wildlife animals, and research animals)	Agribusiness Systems (Sales, Service, Farm and Ranch Management, Entrepreneurship, Economics, etc.)	Biotechnology (Researcher, Scientist, Pathologist, Bioengineer, Technician, etc.)	Environmental Service Systems (Pollution Prevention, Water & Air Quality, Hazardous Materials, Solid Waste Management, Health & Safety Sanitation, etc.)
Cluster Knowledge & Skills	♦Premier Leadership♦Personal Growth♦Career Success♦Organizations and Associations♦Organizational Structures and Processes♦Safety, Health, and Environmental Management♦Health and Safety Procedures♦Tools, Equipment, Machinery and Technology♦Issues♦Technology and Globalization♦Scientific Inquiry			
Sample Career Specialties/ Occupations	- Agricultural Educator - AI Technician - Animal Caretaker - Animal Health Salesperson - Animal Nutritionist - Animal Scientist - Aquaculturalist - Dairy Producer - Equine Manager - Embryo Technologist - Embryo Transfer Technician - Feed Sales Representative - Feed Sales Specialist - Feedlot Specialist - Livestock Buyer - Livestock Geneticist - Livestock Inspector - Livestock Producer - Meat Science Researcher - Pet Shop Operator - Poultry Manager - Reproductive Physiologist - USDA Inspector - Veterinarian - Veterinary Assistant - Vivarian Technician - Wildlife Biologist	- Ag Lender - Agricultural Chemical Dealer - Agricultural Commodity Broker - Agricultural Economist - Agricultural Educator - Agricultural Products Buyer - Animal Health Products Distributor - Banker/Loan Officer - Chemical Sales Representative - Dairy Herd Supervisor (DHIA) - Farm Investment Manager - Farm Manager - Farmer/Rancher/Feedlot Operator - Field Representative for Bank, Insurance Company or Government Program - Field Service Representative - Livestock Rancher/Breeder - Livestock Seller - Produce Commission Agent - Sales Manager - Salesperson	- Agricultural Educator - Biochemist - Bioengineer - Bioethics Manager - Bioinformatic - Biomanufacturing Manager - Bioprocessing Supervisor - Biostatistician - Biotech Intellectual Property Manager - Biotech Program Manager - Environmental Scientist - Field Pathologist - Lab Technician - Molecular Analyst - Product Manager - Product Technician - Regulatory Scientist - Researcher - Research Assistant - Research Associate - Research Scientist - Scientist - Seed Quality Coordinator - Statistical Scientist - Technology Development Specialist	- Agricultural Educator - Environmental Compliance Assurance Manager - Environmental Sampling and Analysis Scientist/Technician - Hazardous Materials Handler - Hazardous Materials Technician/Manager - Health and Safety Sanitarian - Pollution Prevention and Control Manager - Pollution Prevention and Control Technician - Solid Waste Disposers/Recycler - Solid Waste Manager - Solid Waste Specialist - Solid Waste Technician - Toxicologist - Water Environment Manager - Waste Water Manager - Water Quality Manager



Pathways	Food Products and Processing Systems (Food Processing and Preserving, Packaging, Distribution, Government Monitoring & Regulation)	Natural Resources Systems (Habitat Conservation, Forest Products, Parks and Recreation, Mining, Environmental Services, Fisheries, Soil Conservation, etc.)	Plant Systems (Agronomic, Horticulture, Forestry, Turf, Viticulture, Soils, etc.)	Power, Structural & Technical Systems (Power, Structures, Controls, Geospatial Technology, Computer Systems, Electronics, Hydraulics, Pneumatics, etc.)
Cluster Knowledge & Skills	♦ Premier Leadership ♦ Personal Growth ♦ Career Success ♦ Organizations and Associations ♦ Organizational Structures and Processes ♦ Safety, Health, and Environmental Management ♦ Health and Safety Procedures ♦ Tools, Equipment, Machinery and Technology ♦ Issues ♦ Technology and Globalization ♦ Scientific Inquiry			
Sample Career Specialties/ Occupations	- Agricultural Communications Specialist - Agricultural Educator - Agricultural Salesperson - Bacteriologist - Cheese Maker - Dietician - Field Manager - Food & Drug Inspector - Food & Fiber Engineer - Food Broker - Food Inspector - Food Meal Supervisor - Food Processor - Food Product Biochemist - Food Product Bioengineer - Food Scientist - Meat Cutter - Meat Grader - Meat Processors-Toxicologist - Meat Science Researcher - Microbiologist - Nutritionist - Produce Buyer - Quality Control Specialist - Storage Supervisor	- Agricultural Educator - Cartographer - Commercial Fisherman - Ecologist - Environmental Interpreter - Fish and Game Officer - Fish Hatchery Manager - Fisheries Technician - Fishing Vessel Operator - Forest Technician - Geologist - Hydrologist - Log Grader - Logger - Mining Engineer - Park Manger - Pulp and Paper Manager - Range Technician - Soil Geology Technician - Vessel Crew - Water Monitoring Technician - Wildlife Manager	- Agricultural Educator - Agricultural Journalist - Bioinformatics Specialist - Biotechnology Lab Technician - Botanist - Commodity Marketing Specialist - Crop Farm Manager - Custom Hay/Silage Operator - Education & Extension Specialist - Farmer - Forest Geneticist - Golf Course Superintendent - Grain Operations Superintendent - Greenhouse Manager - Grower - Plant Breeders/Geneticist - Plant Pathologist - Rancher - Sales Representative - Soil & Water Specialist - Tree Surgeon	- Agricultural Applications Software Developer/ Programmer - Agricultural Educator - Agricultural Engineer - Agricultural Extension Engineering Specialist - Communication Technician - Database Administrator - Electronics Systems Technician - Equipment/Parts Manager - GPS Technician - Heavy Equipment Maintenance Technician - Information Lab Specialist - Machine Operator - Machinist - Recycling Technician - Remote Sensing Specialist - Waste Water Treatment Plant Operator - Welder



Name: _____

Date: _____

Class: _____

Career Exploration

1. Job Title:

2. Career Pathway:

3. Educational Requirements:

4. Job Availability:

5. Suggested High School/Collegiate Courses:

6. Skills Needed:

7. Working Conditions:

8. Related Careers:
