

Title: Introduction Activity: Agriculture, Food & Natural Resources Career Cluster

Grade: 6

Career Development Model:

Career Exploration

Nebraska Career Readiness Standards:

Manages personal career development

Objective:

 Students will categorize varieties of career opportunities in Ag, Food & Natural Resources career cluster.

Materials and Supplies Needed:

- Copies for each student of "AFNR Career Cards" handout, preferably printed on cardstock
- One scissors per student
- Optional: Copies of Agriculture, Food, and Natural Resources Cluster at a Glance to enhance discussion.

Class Instructions:

Time: 30 - 40 minutes

Part 1

- 1. Ask the following questions one at a time and have students raise their hands if they have done this today:
 - a. Who has eaten or drank anything today?
 - b. Who dressed themselves this morning?
 - c. Who road in a vehicle to get to school today?
- 2. Tell the students that we're going to explore a few of the careers that made those things possible...the things we do nearly every day.
- 3. Hold up the "AFNR Career Cards" handout and explain the first task:
 - a. Tell the students that, in a moment, they'll get the "AFNR Career Cards" handout.
 - b. Once they get one, they'll need to get a scissors and cut out all 21 cards.
 - c. After cutting out the cards, they'll sort them into seven career pathways as

- follows: (Write them on the board as you list them.) Agribusiness, Animal, Environmental Service, Food Products and Processing, Natural Resources, Plant, and Power, Structural and Technical Systems.
- d. Tell students that they may not have the same amount of careers in each pile, but they should have at least one per pathway.
- e. Direct students that they should be ready to share in minutes.
- f. Distribute the "AFNR Career Cards" handout to each student and give time to complete the task.
- 4. Lead a discussion about how the students split up the career cards. Ask the students to justify why they sorted the cards like they did and suggest any changes as needed. (Note: Some cards may cross over pathways, and that's fine as long as the student can justify why they feel that way, and it makes sense). Suggested possibilities for each pathway:
 - a. Agribusiness: Agricultural Loan Officer, Commodity Broker, Agricultural Customs Agent
 - b. Animal: Animal Breeder, Veterinarian, Farm & Ranch Manager
 - c. Environmental Service: Landfill Manager, Environmental Engineer, Explosives Worker
 - d. Food Products and Processing: Food Engineer, Agricultural Inspector, Biochemist
 - e. Natural Resources: Water Treatment Plant Operator, Conservation Scientist, Fish & Game Warden
 - f. Plant: Entomologist, Landscape Architect, Agronomist
 - g. Power, Structural, and Technical Systems: Agricultural Engineer, Diesel Mechanic, Welder

Part 2

- 1. Break students up into groups of three.
- 2. Each group needs to arrange themselves as follows:
 - a. Two people need to be seated in desks facing each other.
 - b. One person needs to stand directly behind one of the seated people, facing the other seated person.
 - c. The person standing up should have one set of the AFNR Career Cards mixed up, all facing one way in their hands.
- 3. Once arranged, tell the students that we're going to have a little career competition and give the following directions:
 - a. You each have just assumed a role based on the spot you chose in your group. The person standing is the "HOLDER;" the person sitting directly below the holder is the "GUESSER;" the person sitting across from the holder and

- guesser is the "TELLER." Listen carefully to your role.
- b. HOLDER You are to hold the career cards so the teller can see/read them and the guesser cannot. Flip to the next card once the guesser says pass or gets the career right.
- c. GUESSER you are to guess the career based on the teller's description. If you don't know it, pass on the card and move on to the next card.
- d. TELLER you are to read the description on the career card not the actual career name on the top. Add any other descriptors for the guesser to help them guess the career name.
- 4. Clarify any questions on each person's role. Perhaps use one group to demonstrate how this may work with one card.
- 5. Tell students that when they hear "Go," they'll have seconds to get as many careers as they can.
- 6. Say "Go!"
- 7. When time is up, call time. Have each group tell you how many they got right.
- 8. Keep track on the board.
- 9. Have the students rotate to a new position and do another round for seconds.
- 10. Keep track on the board.
- 11. After three or more rounds, do a comparison of scores. Focus on the improvement of each group and the fact that they're now all familiar with 21 new career options!
- 12. Continue with AFNR exploration.

Credits/Sources:

Nebraska Career Education www.education.ne.gov/nce

AFNR Career Cards

FOOD ENGINEER	AGRICULTURAL INSPECTOR	ENTOMOLOGIST
Design food and food packaging that is convenient	Work at processing facilities to inspect and assign quality	Study insects and their relationship with plants in an
and appealing to consumers	standards to food products	ecosystem
WATER TREATMENT PLANT	ANIMAL BREEDER	AGRICULTURAL ENGINEER
OPERATOR	Selectively breed animals for	Design equipment to get
Treat water so that it is safe	specific characteristics that	agricultural products from
to drink	are desired	raw material to a consumable form
BIOCHEMIST	CONSERVATION SCIENTIST	FISH & GAME WARDEN
Study the chemical	Manage, develop, and help	Enforce the laws that protect
composition of food products	protect soil and ecosystems	fish and wildlife
and how they interact when mixed		
VETERINARIAN	LANDSCAPE ARCHITECT	FARM & RANCH MANAGER
Give medical care to	Design outdoor areas using	Raise crops and livestock to
companion or production	plants and other natural	supply a specified market
animals	materials	
LANDFILL MANAGER	AGRICULTURAL LOAN OFFICER	ENVIRONMENTAL ENGINEER
Monitor landfill operations,	Work as a banker with	Create solutions to
including design, input, gas	agricultural individuals and	environmental problems
development, and water	companies who need loans	affecting the welfare of humans and nature
quality EXPLOSIVES WORKER	DIESEL MECHANIC	AGRONOMIST
Use explosive devises to	Fix equipment with diesel	Work as a scientist who
demolish rock for the purpose	engines, such as tractors and	specializes in field crops and
of mining	semi-trucks	their use as a fuel, feed, or
		fiber
COMMODITY BROKER	AGRICULTURAL CUSTOMS AGENT	WELDER
Buy or sell agricultural	Work as government	Fuse metals together to make
materials in an open market	employee who enforces laws	agricultural equipment
system with the purpose of making a profit	on agricultural goods coming	
making a pront	into/going out of the country	

Student Sheet for Careers that are a Bingo

Careers that are a Bingo Card

Directions: Fill in your bingo card at random by selecting 16 of these 21 sample Agriculture, Food, and Natural Resource Careers.

Landscapers and groundskeepers Farmers and farm managers

Zoologists

Water treatment plant operators

Food scientists

Animal breeders

Animal caretakers

Environmental engineers

Gas and oil plant operators Agricultural inspectors

Fish and game wardens

Conservation scientists

Agricultural scientists

Explosives workers

Food Quality Assurance Specialists

Foresters

Nursery workers

Commercial fishers

Agriculture teacher

Greenhouse managers

Graders and sorters

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Graders and sorters