

Oregon



Developed By:

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Summer Ag Institute Lesson Plans

Title of Lesson: Careers in Agriculture, Food, and Natural Resource Systems

Academic Subject: Future Focus (Career Development)

Theme: Careers

Grade Level: 10

CIM/CAM Standards: Reading

1. Listen to and read informational and narrative text
2. Read to perform a task
3. Informational text: demonstrate general understanding

Learner Objective: (The student will)

1. Use CIS to research and discover careers in Agriculture, Food, and Natural Resource Systems.
2. Select two careers to read and write about using the "CIS Career Pathway Research" form.

Vocabulary:

1. Agriculture - The science, art, and business of cultivating soil, producing crops, and raising livestock; farming.
2. Food - Material, usually of plant or animal origin, that contains or consists of essential body nutrients, such as carbohydrates, fats, proteins, vitamins, or minerals, and is ingested and assimilated by an organism to produce energy, stimulate growth, and maintain life.
3. Natural Resource - A material source of wealth, such as timber, fresh water, or a mineral deposit, that occurs in a natural state and has economic value.

4. Agriculture, Food, and Natural Resource Systems - one broad career learning area that high schools may use to connect what students learn in school with the real world. The Agriculture, Food, and Natural Resources area includes programs related to the environment, natural resources, and food production. Students interested in agriculture, food processing, earth sciences, environmental sciences, fisheries management, forestry, horticulture, and wildlife management may want to consider this area of study.
5. CIS - The Oregon Career Information System (CIS) is Oregon's career information delivery system (CIDS). It provide a comprehensive and state-based resource to help Oregonians of all ages become aware of work and educational options, connect education and work, and make successful career decisions and transitions throughout their lifetime.

Anticipatory Set:

1. Name a few careers in agriculture, food and natural resources. Class discussion of these careers and the ideas students currently hold about these jobs.
2. How about these occupations: What is an Agronomist? What is a Biometrician? How about a Hydrologist? Class discussion of the ideas students currently understand about these jobs. Display posters of the three occupations and explain each job description.
3. Do you think there are many careers such as these that you have yet to discover? Lets find out today.

Instructional Outline (Teaching Content)

1. Review vocabulary words to clarify the breadth of careers the Agriculture, Food, and Natural Resource Systems Pathway encompasses.
2. Review CIS Career Pathway Research form with students, explaining how to use and complete the form.
3. Students fill in the schools username and password on the CIS Career Pathway Research form.
4. Explore individual research of careers in Agriculture, Food, and Natural Resource Systems.
5. Complete the "CIS Career Pathway Research" Form.

Strategies

(What to do, explain or have students do)

1. Prior to lesson obtain your schools username and password for CIS from your school counselor. This will be needed for students to log onto CIS
2. Use overhead transparencies, power point, or handouts with the vocabulary prepared for discussion.
3. Move class to the computer lab.
4. Lead students through logging onto the Internet.
5. Lead students through signing into CIS using the school username and password.
6. Help students locate the Career Learning Areas link on the home page and then the Careers in Agriculture, Food, and Natural Resource Systems section.
7. Assist individual students as needed in completing their research.
8. Return students to the classroom for the closure activity.

Closure:

1. In groups of 4 students share the careers you researched. Decide on two of the careers you find the most intriguing, interesting or new to you to share with the class.
2. Groups name, describe, and share about two chosen careers with the class.

Resources:

1. Living Science, Food, Agricultural, and Natural Resources Careers, poster set available from Oregon Agriculture in the Classroom.
2. Overhead transparencies, power point, or handouts of vocabulary words.
3. CIS Career Pathway Research forms

Evaluation:

1. Completed "CIS Career Pathway Research" form showing two careers in the Agriculture, Food, and Natural Resource Systems that have been researched.

CIS Career Pathway Research
Agriculture, Food, and Natural Resource Systems
Mrs. Helbling

Name: _____

Date: Period: _____

1. Go online

- Go to: <http://Oregoncis.uoregon.edu>
- Go to: Sign in for internet
- Username: _____

- Password: _____

2. Go to Career Learning Areas

- Select: Agriculture, Food, and Natural Resource Systems

3. Go to Overview - read the pathway overview.

4. Go to Knowledge and Skills - list six of the knowledge and skills.

5. Go to Recommended Courses - list six elective courses that are also in your High School Course Guide.

6. Go to Occupations - Choose one career that you are interested in from the following categories:

- Occupations Requiring Short-term On-the-job Training (less than 1 month)
- Occupations Requiring Moderate-term On-the-job Training (1 to 12 months)
- Occupations Requiring Long-term On-the-job Training (over 1 year)
- Occupations Requiring Work Experience in a Related Occupation

7. Click on the one career: Find the following information and take notes about each.

Title of occupation: _____

a. Skills and Abilities _____

b. Employment _____

c. Preparation _____

d. Wages _____

e. Helpful High School Courses _____

8. Go to Occupations - Choose one career that you are interested in from the following categories:

- Occupations Requiring Postsecondary Certificate
- Occupations Requiring Associate Degree
- Occupations Requiring Bachelor's Degree
- Occupations Requiring Work Experience Plus a Bachelor's or Higher Degree
- Occupations Requiring Master's Degree
- Occupations Requiring Doctoral Degree
- Occupations Requiring Professional Degree

9. Click on the one career: Find the following information and take notes about each.

Title of Occupation: _____

a. Skills and Abilities _____

b. Employment _____

c. Preparation _____

d. Wages _____

e. Helpful High School Courses _____