



Career Development

Audience: 6-8 grade

Activity Length: One class period

TEKS:

6th Grade

- English §110.22.b
 - 1.A, 1.B, 1.D, 5.H
- Science §112.26.b
 - 4.C, 5.G
- Social Studies §113.18.c
 - 5.A, 6.A, 6.B, 6.C, 19.C, 21.C, 22.B

7th Grade

- English §110.23.b
 - 5.H
- Science §112.27.b
 - 1.A, 4.C
- Social Studies §113.19.c
 - 20.C, 20.E

8th Grade

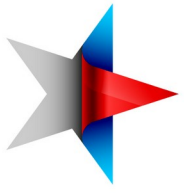
- English §110.24.b
 - 5.H
- Science §112.28.b
 - 1.A, 4.C
- Social Studies §113.20.c
 - 29.C, 29.E

Electives

- Career and College Exploration §127.2.d
 - 1.C, 1.D
- Principles of Agriculture, Food, and Natural Resources §130.2c
 - 1.A, 1.B, 4.B, 6.A, 6.B

Objectives:

- The student will explore education and career planning and opportunities, through career portals, and pathways.



TEXAS FARM BUREAU®

Introduction:

In Texas, one of every 7 working Texans is in an agriculture related job. The economic impact of the food and fiber sector totals more than \$100 billion annually. Texas is number one in cattle, cotton, hay, sheep, goats and mohair production. Agricultural exports to foreign countries totaled \$6.5 billion in 2012.

<https://texasagriculture.gov/About/TexasAgStats.aspx>

Texas farmers and ranchers ensure Texas' economy remains strong. The job outlook in agriculture is bright!

Materials

- USDA Living Science Food, Agriculture and Natural Resource Career Cards
- Texas Farm Bureau Career Cluster Graphic
- Texas Farm Bureau Videos
 - <https://vimeo.com/channels/txfbaitc>

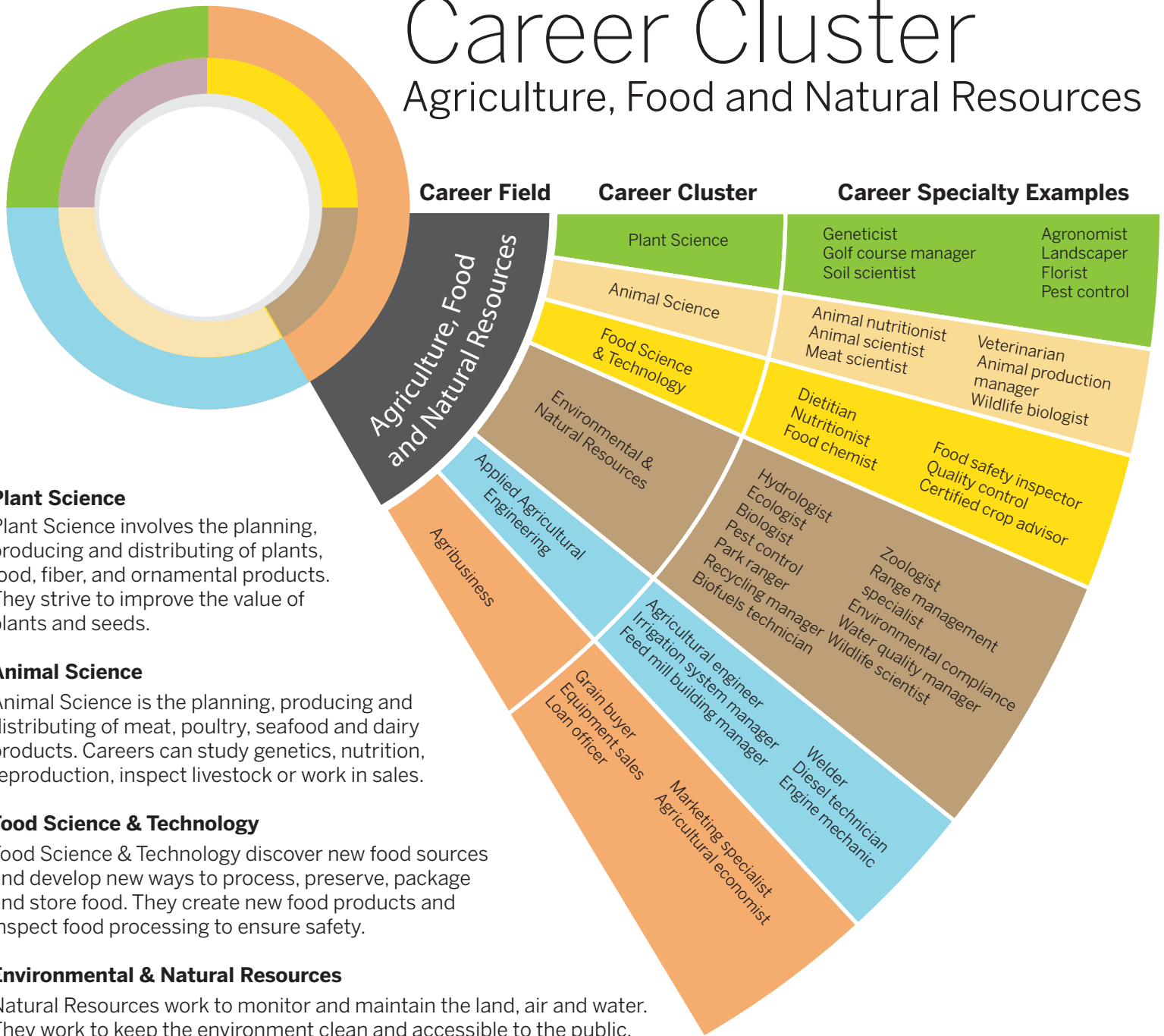
Procedure:

Videos from the Texas Farm Bureau Vimeo channel are excellent introduction to agriculture careers.

1. Display USDA Living Science Career Cards. They can be downloaded at <https://www.agriculture.purdue.edu/USDA/Careers/>. There are 50 two sided career cards.
2. Switch out career cards in the display to mirror concepts covered in class.
3. Laminate cards to be used as group work. Have students work in groups to research careers.
 - a. What is the demand for this career?
 - b. Is it declining or is it increasing?
 - c. Will these jobs be in your area? D. What are the pros and cons of this career?
4. Use the Texas Farm Bureau Career Card to further discuss careers. Discuss opportunities with various forms of education. A. What opportunities are there for specialized training? B. How do they compare to careers that require a degree?

Career Cluster

Agriculture, Food and Natural Resources



Plant Science

Plant Science involves the planning, producing and distributing of plants, food, fiber, and ornamental products. They strive to improve the value of plants and seeds.

Animal Science

Animal Science is the planning, producing and distributing of meat, poultry, seafood and dairy products. Careers can study genetics, nutrition, reproduction, inspect livestock or work in sales.

Food Science & Technology

Food Science & Technology discover new food sources and develop new ways to process, preserve, package and store food. They create new food products and inspect food processing to ensure safety.

Environmental & Natural Resources

Natural Resources work to monitor and maintain the land, air and water. They work to keep the environment clean and accessible to the public. Environmental Resources work to preserve the environment by keeping it clean and accessible to the public.

Applied Agricultural Engineering

Applied Agricultural Engineering helps to design and maintain machinery used in agriculture by applying knowledge of engineering, hydraulics, electronics, power and structures. They develop ways to help conserve soil and water and improve agricultural products.

Agribusiness

Agribusiness uses technology to coordinate all activities that contribute to production, processing, marketing, distributing, financing and development of all agriculture commodities. They help to increase efficiency and profitability by using spreadsheets, satellite systems and other innovations.



TEXAS FARM BUREAU®

Plant Science

High School or On-the-Job Training

Nursery or greenhouse worker
Seed sales
Crop inspectors

Associate's Degree

Commercial horticulture
Crop production
Forestry
Landscape/nursery

Bachelor's Degree

Conservationist
Plant protection science
Arboretum manager
Sustainable designer

Master's/Doctoral Degree

Agronomy consultant
Biochemist
Entomologist
Horticulture specialist

Animal Science

High School or On-the-Job Training

Animal caretakers
Feed sales
Animal trainer
Farmer/rancher
Artificial inseminator

Associate's Degree

Equine industry management
Livestock industry management
Swine management
Vet technician

Bachelor's Degree

Grazing livestock systems
Animal inspector
Feedlot manager
Food safety inspector

Master's/Doctoral Degree

Geneticist
Animal nutritionist
Biochemist
Integrative biomedical sciences
Veterinary medicine

Food Science & Technology

High School or On-the-Job Training

Butcher
Meat processor
Inspector
Baker

Associate's Degree

Quality control
USDA grader

Bachelor's Degree

Hospitality, restaurant and tourism management
Mechanized systems management
Meat sales/buyer
Research and development
Auditor

Master's/Doctoral Degree

Food science and technology nutrition
Meat scientist
Test kitchen manager

Environmental & Natural Resources

High School or On-the-Job Training

Emergency response technician
Wildland firefighter
Recycling manager

Associate's Degree

Soil and water conservationist
Laboratory science technician
Campground manager
Wetlands specialist

Bachelor's Degree

Environmental studies
Aquatic ecologist
Texas Parks and Wildlife
Soil scientist
Zoologist
Water quality manager
Park Ranger

Master's/Doctoral Degree

Wildlife biologist
Regulatory entomologist
Natural resources scientist
Urban planner

Applied Agricultural Engineering

High School or On-the-Job Training

Ag service trainee
Ag equipment operator
Electrician apprenticeship
Plumbing apprenticeship
Welding apprenticeship

Associate's Degree

Farm mechanics
Irrigation technology
Mechanized agriculture practices

Bachelor's Degree

Mechanized marketing
Mechanized science
Processing operations
Electrical engineer

Master's/Doctoral Degree

Agricultural and biological systems engineer
Mechanized systems management

Agribusiness

High School or On-the-Job Training

Ag business clerk
Ag warehouse worker
Farmer/rancher

Associate's Degree

Ag sales
Custom applicators
Farm and ranch business management

Bachelor's Degree

Commodity trader
Government agency employee
Loan officer

Master's/Doctoral Degree

Attorney/lawyer
Political consultant
Ag economist