

Activity 1.1

Name _____ Date _____ Hour _____

Unit Word Search

Student Materials

Pencil

Directions

Fill in the blank with the correct term from the word bank. Find each word within the word search.

- _____ 1. The application of agricultural principles and new technologies
- _____ 2. Jobs or careers are divided into career _____.
- _____ 3. Career clusters are further broken down into career _____.
- _____ 4. Agricultural communications include careers that perform _____ relations functions.
- _____ 5. Genetically modified plants are an example of the use of _____.
- _____ 6. A type of agricultural engineering
- _____ 7. Engineering that has used various chemical and biological processes to improve food production
- _____ 8. Few agricultural jobs today are traditional _____ jobs.
- _____ 9. Veterinarians study the health and _____ of animals.
- _____ 10. The study of _____ sociology falls under the Agribusiness and Management pathway.
- _____ 11. The Natural Resources and Environmental Science pathway includes those careers that work to regulate and _____ resources.
- _____ 12. Food production has been increased by tailoring crops to the _____ of various regions.
- _____ 13. You should choose a _____ that matches your interests, skills, and personality.
- _____ 14. The _____ range is one consideration in choosing a career.

- _____ 15. You should design a _____ to reach your goal.
- _____ 16. You should be _____ when deciding upon a career goal.
- _____ 17. Ethanol and biodiesel are examples of _____.
- _____ 18. A _____ degree may take many years to obtain.
- _____ 19. Salary numbers provided are often the _____, or the salary nearest the middle of all salaries for that job.
- _____ 20. In the Agribusiness and Management pathway, an agricultural _____ often has a graduate degree.
- _____ 21. One career in agricultural is being an agricultural _____ representatives.
- _____ 22. A career in the Natural Resources and Environmental Science Pathway is that of a fish and game _____.
- _____ 23. Foods produced without the use of synthetic fertilizers, irradiation or genetic engineering are considered _____.
- _____ 24. Before making a career decision, it is important to _____ it well.
- _____ 25. Technical hands-on skills include operating _____.
- _____ 26. Written communications skills include _____ reports.
- _____ 27. Interpersonal relations skills include _____ in small groups.
- _____ 28. Organizing skills include keeping _____.

Word Bank

agriscience
 biofuels
 biotechnology
 career
 climates
 clusters
 diseases

economist
 farming
 flexible
 genetic
 graduate
 machines
 mechanical

median
 organic
 pathways
 plan
 preserve
 public
 records

research
 rural
 salary
 sales
 speaking
 warden
 writing

Z I J D P N R Q V S T W F W T G T Q S Q N I
 S X F W T L C Y N H I H E R S Y R N E L U I
 E W U T A J L R T R A S C I L B U P L U N Y
 U F I O G H E B T X F S O T W L L Z A H Q N
 Y K T L H G O N A L P G N I K A E P S F A F
 S F F R C C E B Y G O L O N H C E T O I B C
 E L Q R S D R O C E R M M G L I N R D L I I
 Y N X Y R A L A S P Z I I U F N G E F U O O
 F W L A R U R E E R A C S E T A M I L C F X
 D X W Y R E W Y S S I T T C N H R C E T U T
 R F X G R A D U A T E H H I I C I M X Q E Q
 G H Q E V R E S E R P R C W I E H Z I D L G
 K E E M F L K N S E N I H C A M N X B N S Y
 T F M I N S E A I V T C X H N Y M C L A G Q
 S M I V Y G R I D F S U X A Z K S J E B R U

Activity 1.2

Name _____ Date _____ Hour _____

Issues in Agriculture

Student Materials

Pen or pencil

Paper

Resources on agriculture

Directions

Choose one topic related to current issues in agriculture that interests you. For example, topics might include the use of genetically modified organism (GMOs), hormone and antibiotic use, organic vs. non-organic products, and humane treatment of animals.

Write a report on your chosen topic following the guidelines listed below.

- Length should be 2 to 3 pages
- Include graphics and/or photos
- Explain the debate and/or controversy surrounding the topic
- Include your view of the issue
- Include interviews with farmers or consumers, if possible
- Include a list of the resources used

Activity 1.3

Name _____ Date _____ Hour _____

Discovering Clusters



Student Materials

Pencil

Directions

Clustering means to sort or group objects and things together. The items in each row are alike in some way. Give a cluster name to each cluster below. Make up your own cluster groups to share with the class.

Things in the Cluster					Cluster Name
1.	Arm	Leg	Neck	Foot	
2.	Hammer	Wrench	Pliers	Screwdriver	
3.	Heels	Pumps	Boots	Sandals	
4.	Atlantic	Pacific	Arctic	Indian	
5.	Texas	Oklahoma	Utah	Delaware	
6.	Pear	Banana	Grapes	Apple	
7.	Shark	Tuna	Marlin	Trout	
8.	Rose	Pansy	Tulip	Carnation	
9.	Mittens	Ear Muffs	Hat	Gloves	
10.	Skis	Poles	Snowboard	Boots	
11.	Colored Glass	Grinder	Solder	Copper Foil	
12.	Saturn	Pluto	Mars	Venus	
13.	Pottery	Sculpture	Oil Painting	Knitting	
14.	Columbus	Cortez	Cook	Coronado	
15.	Opal	Amber	Garnet	Topaz	
16.	Trumpet	Trombone	Tuba	French Horn	
17.	Fibula	Femur	Humerus	Tibia	
18.	Trapezoid	Triangle	Square	Circle	
19.					
20.					

Activity 1.4

Name _____ Date _____ Hour _____

Career Clusters Survey



Student Materials

Pencil

Directions

Place a check in the space next to the items that best describe you. You may make as many or as few checks in each box as you choose. Add up the number of checks in each box. Look to see what box has the highest number. Find the corresponding cluster on the pages immediately following this survey to see which cluster you may want to explore further.

<p>Activities that describe what I like to do:</p> <ul style="list-style-type: none"> <input type="checkbox"/> Learn how things grow and stay alive. <input type="checkbox"/> Make the best use of the earth's natural resources. <input type="checkbox"/> Hunt and/or fish. <input type="checkbox"/> Protect the environment. <input type="checkbox"/> Be outdoors in all kinds of weather. <input type="checkbox"/> Plan, budget, and keep records. <input type="checkbox"/> Operate machines and keep them in good repair. 	<p>Personal qualities that describe me:</p> <ul style="list-style-type: none"> <input type="checkbox"/> Self-reliant <input type="checkbox"/> Nature lover <input type="checkbox"/> Physically active <input type="checkbox"/> Planner <input type="checkbox"/> Creative problem solver 	<p>School subjects I like:</p> <ul style="list-style-type: none"> <input type="checkbox"/> Math <input type="checkbox"/> Life Sciences <input type="checkbox"/> Earth Sciences <input type="checkbox"/> Chemistry <input type="checkbox"/> Agriculture 	<p>Total number checked in box #1</p> <div style="border: 1px solid black; width: 60px; height: 40px; margin: 0 auto;"></div>
<p>Activities that describe what I like to do:</p> <ul style="list-style-type: none"> <input type="checkbox"/> Read and follow blueprints and/or instructions. <input type="checkbox"/> Picture in my mind what a finished product looks like. <input type="checkbox"/> Work with my hands. <input type="checkbox"/> Perform work that requires precise results. <input type="checkbox"/> Solve technical problems. <input type="checkbox"/> Visit and learn from beautiful, historic, or interesting buildings. <input type="checkbox"/> Follow logical, step-by-step procedures. 	<p>Personal qualities that describe me:</p> <ul style="list-style-type: none"> <input type="checkbox"/> Curious <input type="checkbox"/> Good at following directions <input type="checkbox"/> Pay attention to details <input type="checkbox"/> Good at visualizing possibilities <input type="checkbox"/> Patient and persistent 	<p>School subjects I like:</p> <ul style="list-style-type: none"> <input type="checkbox"/> Math <input type="checkbox"/> Drafting <input type="checkbox"/> Physical Sciences <input type="checkbox"/> Construction Trades <input type="checkbox"/> Electrical Trades/Heat, Air Conditioning and Refrigeration/Technology Education 	<p>Total number checked in box #2</p> <div style="border: 1px solid black; width: 60px; height: 40px; margin: 0 auto;"></div>
<p>Activities that describe what I like to do:</p> <ul style="list-style-type: none"> <input type="checkbox"/> Use my imagination to communicate new information to others. <input type="checkbox"/> Perform in front of others. <input type="checkbox"/> Read and write. <input type="checkbox"/> Play a musical instrument. <input type="checkbox"/> Perform creative, artistic activities. <input type="checkbox"/> Use video and recording technology. <input type="checkbox"/> Design brochures and posters. 	<p>Personal qualities that describe me:</p> <ul style="list-style-type: none"> <input type="checkbox"/> Creative and imaginative <input type="checkbox"/> Good communicator/good vocabulary <input type="checkbox"/> Curious about new technology <input type="checkbox"/> Relate well to feelings and thoughts of others <input type="checkbox"/> Determined/tenacious 	<p>School subjects I like:</p> <ul style="list-style-type: none"> <input type="checkbox"/> Art/Graphic design <input type="checkbox"/> Music <input type="checkbox"/> Speech & Drama <input type="checkbox"/> Journalism/Literature <input type="checkbox"/> Audiovisual Technologies 	<p>Total number checked in box #3</p> <div style="border: 1px solid black; width: 60px; height: 40px; margin: 0 auto;"></div>

<p>Activities that describe what I like to do:</p> <ul style="list-style-type: none"> <input type="checkbox"/> Perform routine, organized activities but can be flexible. <input type="checkbox"/> Work with numbers and detailed information. <input type="checkbox"/> Be the leader in a group. <input type="checkbox"/> Make business contact with people. <input type="checkbox"/> Work with computer programs. <input type="checkbox"/> Create reports and communicate ideas. <input type="checkbox"/> Plan my work and follow instructions without close supervision. 	<p>Personal qualities that describe me:</p> <ul style="list-style-type: none"> <input type="checkbox"/> Organized <input type="checkbox"/> Practical and logical <input type="checkbox"/> Patient <input type="checkbox"/> Tactful <input type="checkbox"/> Responsible 	<p>School subjects I like:</p> <ul style="list-style-type: none"> <input type="checkbox"/> Computer Applications/ Business and Information Technology <input type="checkbox"/> Accounting <input type="checkbox"/> Math <input type="checkbox"/> English <input type="checkbox"/> Economics 	<p>Total number checked in box #4</p> <div style="border: 1px solid black; width: 60px; height: 30px; margin: 0 auto;"></div>
<p>Activities that describe what I like to do:</p> <ul style="list-style-type: none"> <input type="checkbox"/> Communicate with different types of people. <input type="checkbox"/> Help others with their homework or to learn new things. <input type="checkbox"/> Go to school. <input type="checkbox"/> Direct and plan activities for others. <input type="checkbox"/> Handle several responsibilities at once. <input type="checkbox"/> Acquire new information. <input type="checkbox"/> Help people overcome their challenges. 	<p>Personal qualities that describe me:</p> <ul style="list-style-type: none"> <input type="checkbox"/> Friendly <input type="checkbox"/> Decision maker <input type="checkbox"/> Helpful <input type="checkbox"/> Innovative/Inquisitive <input type="checkbox"/> Good listener 	<p>School subjects I like:</p> <ul style="list-style-type: none"> <input type="checkbox"/> Language Arts <input type="checkbox"/> Social Studies <input type="checkbox"/> Math <input type="checkbox"/> Science <input type="checkbox"/> Psychology 	<p>Total number checked in box #5</p> <div style="border: 1px solid black; width: 60px; height: 30px; margin: 0 auto;"></div>
<p>Activities that describe what I like to do:</p> <ul style="list-style-type: none"> <input type="checkbox"/> Work with numbers. <input type="checkbox"/> Work to meet a deadline. <input type="checkbox"/> Make predictions based on existing facts. <input type="checkbox"/> Have a framework of rules by which to operate. <input type="checkbox"/> Analyze financial information and interpret it to others. <input type="checkbox"/> Handle money with accuracy and reliability. <input type="checkbox"/> Take pride in the way I dress and look. 	<p>Personal qualities that describe me:</p> <ul style="list-style-type: none"> <input type="checkbox"/> Trustworthy <input type="checkbox"/> Orderly <input type="checkbox"/> Self-confident <input type="checkbox"/> Logical <input type="checkbox"/> Methodical or efficient 	<p>School subjects I like:</p> <ul style="list-style-type: none"> <input type="checkbox"/> Accounting <input type="checkbox"/> Math <input type="checkbox"/> Economics <input type="checkbox"/> Banking/Financial Services <input type="checkbox"/> Business Law 	<p>Total number checked in box #6</p> <div style="border: 1px solid black; width: 60px; height: 30px; margin: 0 auto;"></div>
<p>Activities that describe what I like to do:</p> <ul style="list-style-type: none"> <input type="checkbox"/> Be involved in politics. <input type="checkbox"/> Negotiate, defend, and debate ideas and topics. <input type="checkbox"/> Plan activities and work cooperatively with others. <input type="checkbox"/> Work with details. <input type="checkbox"/> Perform a variety of duties that may change often. <input type="checkbox"/> Analyze information and interpret it to others. <input type="checkbox"/> Travel and see things that are new to me. 	<p>Personal qualities that describe me:</p> <ul style="list-style-type: none"> <input type="checkbox"/> Good communicator <input type="checkbox"/> Competitive <input type="checkbox"/> Service minded <input type="checkbox"/> Well organized <input type="checkbox"/> Problem solver 	<p>School subjects I like:</p> <ul style="list-style-type: none"> <input type="checkbox"/> Government <input type="checkbox"/> Language Arts <input type="checkbox"/> History <input type="checkbox"/> Math <input type="checkbox"/> Foreign Language 	<p>Total number checked in box #7</p> <div style="border: 1px solid black; width: 60px; height: 30px; margin: 0 auto;"></div>
<p>Activities that describe what I like to do:</p> <ul style="list-style-type: none"> <input type="checkbox"/> Work under pressure. <input type="checkbox"/> Help sick people and animals. <input type="checkbox"/> Make decisions based on logic and information. <input type="checkbox"/> Participate in health and science classes. <input type="checkbox"/> Respond quickly and calmly in emergencies. <input type="checkbox"/> Work as a member of a team. <input type="checkbox"/> Follow guidelines precisely and meet strict standards of accuracy. 	<p>Personal qualities that describe me:</p> <ul style="list-style-type: none"> <input type="checkbox"/> Compassionate and caring <input type="checkbox"/> Good at following directions <input type="checkbox"/> Conscientious and careful <input type="checkbox"/> Patient <input type="checkbox"/> Good listener 	<p>School subjects I like:</p> <ul style="list-style-type: none"> <input type="checkbox"/> Biological Sciences <input type="checkbox"/> Chemistry <input type="checkbox"/> Math <input type="checkbox"/> Occupational Health classes <input type="checkbox"/> Language Arts 	<p>Total number checked in box #8</p> <div style="border: 1px solid black; width: 60px; height: 30px; margin: 0 auto;"></div>

<p>Activities that describe what I like to do:</p> <ul style="list-style-type: none"> <input type="checkbox"/> Investigate new places and activities. <input type="checkbox"/> Work with all ages and types of people. <input type="checkbox"/> Organize activities in which other people enjoy themselves. <input type="checkbox"/> Have a flexible schedule. <input type="checkbox"/> Help people make up their minds. <input type="checkbox"/> Communicate easily, tactfully, and courteously. <input type="checkbox"/> Learn about other cultures. 	<p>Personal qualities that describe me:</p> <ul style="list-style-type: none"> <input type="checkbox"/> Tactful <input type="checkbox"/> Self-motivated <input type="checkbox"/> Works well with others <input type="checkbox"/> Outgoing <input type="checkbox"/> Slow to anger 	<p>School subjects I like:</p> <ul style="list-style-type: none"> <input type="checkbox"/> Language Arts/Speech <input type="checkbox"/> Foreign Language <input type="checkbox"/> Social Sciences <input type="checkbox"/> Marketing <input type="checkbox"/> Food Services 	<p>Total number checked in box #9</p> <div style="border: 1px solid black; width: 60px; height: 30px; margin: 0 auto;"></div>
<p>Activities that describe what I like to do:</p> <ul style="list-style-type: none"> <input type="checkbox"/> Care about people, their needs, and their problems. <input type="checkbox"/> Participate in community services and/or volunteering. <input type="checkbox"/> Listen to other people's viewpoints. <input type="checkbox"/> Help people be at their best. <input type="checkbox"/> Work with people from preschool age to old age. <input type="checkbox"/> Think of new ways to do things. <input type="checkbox"/> Make friends with different kinds of people. 	<p>Personal qualities that describe me:</p> <ul style="list-style-type: none"> <input type="checkbox"/> Good communicator/ good listener <input type="checkbox"/> Caring <input type="checkbox"/> Non-materialistic <input type="checkbox"/> Uses intuition and logic <input type="checkbox"/> Non-judgmental 	<p>School subjects I like:</p> <ul style="list-style-type: none"> <input type="checkbox"/> Language Arts <input type="checkbox"/> Psychology/Sociology <input type="checkbox"/> Family & Consumer Sciences <input type="checkbox"/> Finance <input type="checkbox"/> Foreign Language 	<p>Total number checked in box #10</p> <div style="border: 1px solid black; width: 60px; height: 30px; margin: 0 auto;"></div>
<p>Activities that describe what I like to do:</p> <ul style="list-style-type: none"> <input type="checkbox"/> Work with computers. <input type="checkbox"/> Reason clearly and logically to solve complex problems. <input type="checkbox"/> Use machines, techniques, and processes. <input type="checkbox"/> Read technical materials and diagrams and solve technical problems. <input type="checkbox"/> Adapt to change. <input type="checkbox"/> Play video games and figure out how they work. <input type="checkbox"/> Concentrate for long periods without being distracted. 	<p>Personal qualities that describe me:</p> <ul style="list-style-type: none"> <input type="checkbox"/> Logical/analytical thinker <input type="checkbox"/> Sees details in the big picture <input type="checkbox"/> Persistent <input type="checkbox"/> Good concentration skills <input type="checkbox"/> Precise and accurate 	<p>School subjects I like:</p> <ul style="list-style-type: none"> <input type="checkbox"/> Math <input type="checkbox"/> Science <input type="checkbox"/> Computer Tech/ Applications <input type="checkbox"/> Communications <input type="checkbox"/> Graphic Design 	<p>Total number checked in box #11</p> <div style="border: 1px solid black; width: 60px; height: 30px; margin: 0 auto;"></div>
<p>Activities that describe what I like to do:</p> <ul style="list-style-type: none"> <input type="checkbox"/> Work under pressure or in the face of danger. <input type="checkbox"/> Make decisions based on my own observations. <input type="checkbox"/> Interact with other people. <input type="checkbox"/> Be in positions of authority. <input type="checkbox"/> Respect rules and regulations. <input type="checkbox"/> Debate and win arguments. <input type="checkbox"/> Observe and analyze people's behavior. 	<p>Personal qualities that describe me:</p> <ul style="list-style-type: none"> <input type="checkbox"/> Adventurous <input type="checkbox"/> Dependable <input type="checkbox"/> Community-minded <input type="checkbox"/> Decisive <input type="checkbox"/> Optimistic 	<p>School subjects I like:</p> <ul style="list-style-type: none"> <input type="checkbox"/> Language Arts <input type="checkbox"/> Psychology/Sociology <input type="checkbox"/> Government/History <input type="checkbox"/> Law Enforcement <input type="checkbox"/> First Aid/First Responder 	<p>Total number checked in box #12</p> <div style="border: 1px solid black; width: 60px; height: 30px; margin: 0 auto;"></div>

<p>Activities that describe what I like to do:</p> <ul style="list-style-type: none"> <input type="checkbox"/> Work with my hands and learn best that way. <input type="checkbox"/> Put things together. <input type="checkbox"/> Do routine, organized and accurate work. <input type="checkbox"/> Perform activities that produce tangible results. <input type="checkbox"/> Apply math to work out solutions. <input type="checkbox"/> Use hand and power tools and operate equipment/machinery. <input type="checkbox"/> Visualize objects in three dimensions from flat drawings. 	<p>Personal qualities that describe me:</p> <ul style="list-style-type: none"> <input type="checkbox"/> Practical <input type="checkbox"/> Observant <input type="checkbox"/> Physically active <input type="checkbox"/> Step-by-step thinker <input type="checkbox"/> Coordinated 	<p>School subjects I like:</p> <ul style="list-style-type: none"> <input type="checkbox"/> Math-Geometry <input type="checkbox"/> Chemistry <input type="checkbox"/> Trade and Industry courses <input type="checkbox"/> Physics <input type="checkbox"/> Language Arts 	<p>Total number checked in box #13</p> <div style="border: 1px solid black; width: 60px; height: 30px; margin: 0 auto;"></div>
<p>Activities that describe what I like to do:</p> <ul style="list-style-type: none"> <input type="checkbox"/> Shop and go to the mall. <input type="checkbox"/> Be in charge. <input type="checkbox"/> Make displays and promote ideas. <input type="checkbox"/> Give presentations and enjoy public speaking. <input type="checkbox"/> Persuade people to buy products or to participate in activities. <input type="checkbox"/> Communicate my ideas to other people. <input type="checkbox"/> Take advantage of opportunities to make extra money. 	<p>Personal qualities that describe me:</p> <ul style="list-style-type: none"> <input type="checkbox"/> Enthusiastic <input type="checkbox"/> Competitive <input type="checkbox"/> Creative <input type="checkbox"/> Self-motivated <input type="checkbox"/> Persuasive 	<p>School subjects I like:</p> <ul style="list-style-type: none"> <input type="checkbox"/> Language Arts <input type="checkbox"/> Math <input type="checkbox"/> Business Education/Marketing <input type="checkbox"/> Economics <input type="checkbox"/> Computer Applications 	<p>Total number checked in box #14</p> <div style="border: 1px solid black; width: 60px; height: 30px; margin: 0 auto;"></div>
<p>Activities that describe what I like to do:</p> <ul style="list-style-type: none"> <input type="checkbox"/> Interpret formulas. <input type="checkbox"/> Find the answers to questions. <input type="checkbox"/> Work in a laboratory. <input type="checkbox"/> Figure out how things work and investigate new things. <input type="checkbox"/> Explore new technology. <input type="checkbox"/> Experiment to find the best way to do something. <input type="checkbox"/> Pay attention to details and help things be precise. 	<p>Personal qualities that describe me:</p> <ul style="list-style-type: none"> <input type="checkbox"/> Detail oriented <input type="checkbox"/> Inquisitive <input type="checkbox"/> Objective <input type="checkbox"/> Methodical <input type="checkbox"/> Mechanically inclined 	<p>School subjects I like:</p> <ul style="list-style-type: none"> <input type="checkbox"/> Math <input type="checkbox"/> Science <input type="checkbox"/> Drafting/Computeraided drafting <input type="checkbox"/> Electronics/Computer Networking <input type="checkbox"/> Technical classes/Technology Education 	<p>Total number checked in box #15</p> <div style="border: 1px solid black; width: 60px; height: 30px; margin: 0 auto;"></div>
<p>Activities that describe what I like to do:</p> <ul style="list-style-type: none"> <input type="checkbox"/> Travel. <input type="checkbox"/> See well and have quick reflexes. <input type="checkbox"/> Solve mechanical problems. <input type="checkbox"/> Design efficient processes. <input type="checkbox"/> Anticipate needs and prepare to meet them. <input type="checkbox"/> Drive or ride. <input type="checkbox"/> Move things one place to another. 	<p>Personal qualities that describe me:</p> <ul style="list-style-type: none"> <input type="checkbox"/> Realistic <input type="checkbox"/> Mechanical <input type="checkbox"/> Coordinated <input type="checkbox"/> Observant <input type="checkbox"/> Planner 	<p>School subjects I like:</p> <ul style="list-style-type: none"> <input type="checkbox"/> Math <input type="checkbox"/> Trade and Industry courses <input type="checkbox"/> Physical Sciences <input type="checkbox"/> Economics <input type="checkbox"/> Foreign Language 	<p>Total number checked in box #16</p> <div style="border: 1px solid black; width: 60px; height: 30px; margin: 0 auto;"></div>

Disclaimer: Your interests may change over time. These survey results are intended to help you with informal career exploration. Consider more formal assessments and other resources or services to help you plan your career. This survey does not make any claims of statistical reliability.



The Sixteen Career Clusters

 <p>1</p>	<p>The production, processing, marketing, distribution, financing, and development of agricultural commodities and resources including food, fiber, wood products, natural resources, horticulture, and other plant and animal products/resources.</p>
 <p>2</p>	<p>Careers in designing, planning, managing, building, and maintaining the built environment.</p>
 <p>3</p>	<p>Designing, producing, exhibiting, performing, writing, and publishing multimedia content including visual and performing arts and design, journalism, and entertainment services.</p>
 <p>4</p>	<p>Business Management and Administration careers encompass planning, organizing, directing and evaluating business functions essential to efficient and productive business operations. Business Management and Administration career opportunities are available in every sector of the economy.</p>
 <p>5</p>	<p>Planning, managing, and providing education and training services, and related learning support services.</p>
 <p>6</p>	<p>Planning, services for financial and investment planning, banking, insurance, and business financial management.</p>
 <p>7</p>	<p>Executing governmental functions to include governance, national security, foreign service, planning, revenue and taxation, regulation, and management and administration at the local, state, and federal levels.</p>
 <p>8</p>	<p>Planning, managing, and providing therapeutic services, diagnostic services, health informatics, support services, and biotechnology research and development.</p>
 <p>9</p>	<p>Hospitality and Tourism encompasses the management, marketing and operations of restaurants and other foodservices, lodging, attractions, and recreation events and travel-related services.</p>

 <p>Human Services</p> <p>10</p>	<p>Preparing individuals for employment in career pathways that relate to families and human needs.</p>
 <p>nformation Technology</p> <p>11</p>	<p>Building linkages in IT occupations framework for entry-level, technical, and professional careers related to the design, development, support and management of hardware, software, multimedia, and systems integration services.</p>
 <p>aw, Public Safety, Corrections & Security</p> <p>12</p>	<p>Planning, managing, and providing legal, public safety, protective services and homeland security, including professional and technical support services.</p>
 <p>Manufacturing</p> <p>13</p>	<p>Planning, managing, and performing the processing of materials into intermediate or final products and related professional and technical support activities such as production planning and control, maintenance, and manufacturing/process engineering.</p>
 <p>arketing, Sales & Service</p> <p>14</p>	<p>Planning, managing, and performing marketing activities to reach organizational objectives.</p>
 <p>cience, Technology, Engineering & Mathematics</p> <p>15</p>	<p>Planning, managing, and providing scientific research and professional and technical services (e.g., physical science, social science, engineering), including laboratory and testing services, and research and development services.</p>
 <p>ransportation, Distribution & Logistics</p> <p>16</p>	<p>Planning, management, and movement of people, materials, and goods by road, pipeline, air, rail, and water and related professional and technical support services such as transportation infrastructure planning and management, logistics services, mobile equipment, and facility maintenance.</p>

My top three clusters of interest are:

1. _____
2. _____
3. _____

For more information, check with a career counselor at your high school, CareerTech center, higher education institution, or one-stop career centers.



These 16 Career Cluster icons are being used with permission of the: States' Career Clusters Initiative, 2007, www.careerclusters.org

Activity 1.5

Name _____ Date _____ Hour _____

Favorite Pathway



Student Materials

Pencil

Directions

Review each of the seven pathways below; rank your top three pathways of interest by assigning a 1 to your favorite, a 2 to your next favorite, and a 3 to your next favorite.

_____ Agribusiness Systems

In this pathway, you can ...	Sample Occupations
Buy and sell agricultural commodities Loan money to individuals and companies Manage a farm or ranch business Manage a feed/farm supply store Market agricultural products Buy and/or sell livestock	Agricultural Commodity Broker Agricultural Loan Officer Farm/Ranch Manager Feed/Farm Supply Store Manager International Agri-Marketing Specialist Livestock Buyer/Seller

_____ Animal Systems

In this pathway, you can ...	Sample Occupations
Clone animals Create balanced diets for specific animals Manage a fish farm Improve animals reproductively Manage poultry operations Treat sick or injured animals	Animal Geneticist Animal Nutritionist Aquaculturalist Embryo Technologist Poultry Manager Veterinarian

_____ Environmental Service Systems

In this pathway, you can ...	Sample Occupations
Identify and dispose of hazardous materials Help prevent harm to the environment Collect samples of air and water Measure and control hazardous substances Dispose of solid waste in a safe way Treat water so it is safe to drink	Hazardous Materials Handler Health and Safety Sanitarian Environmental Sampling Technician Pollution Prevention and Control Manager Solid Waste Disposer/Recycler Water Quality Manager

Food Products and Processing

In this pathway, you can . . .	Sample Occupations
Search for new uses for chemicals Test food so it won't make people sick Improve the quantity and quality of food Cut meat to be sold in grocery stores Purchase food for grocery stores Detect poisons and specify treatments	Biochemist Food and Drug Inspector Food Scientist Meat Cutter-Grader Product Buyer Toxicologist

Natural Resource Systems

In this pathway, you can . . .	Sample Occupations
Enforce hunting and fishing laws Raise fish to be sold for consumption Develop, maintain, and protect forests Manage and operate public parks Monitor the quality of water Manage and protect wildlife	Fish and Game Warden Fisheries Manager Forest Manager or Technician Park Manager Water Monitoring Technician Wildlife Manager

Plant Systems

In this pathway, you can . . .	Sample Occupations
Advise farmers on how and what to grow Grow plants to discover new medicines Assist growers with pest control plans Manage and maintain a golf course Grow trees, plants, flowers, and sod Make organisms more productive or resistant to disease	Certified Crop Advisor Plant Breeder and Geneticist Education and Extension Specialist Golf Course Superintendent Greenhouse Manager Microbiologist

Power, Structural, and Technical Systems

In this pathway, you can . . .	Sample Occupations
Design equipment, machinery, and structures Use satellite images to make decisions Design and make precision metal parts Develop and operate recycling equipment Use remote sensing tools to collect data Build and repair equipment using a welder	Agricultural Engineer Global Positioning System Technician Machinist Recycling Technician Remote Sensing Specialist Welder

Data Source: 2004-05 Occupational Outlook Handbook, U.S. Department of Labor, Bureau of Labor Statistics
 Compiled by: Curtis Shumaker, facilitator of Agriculture, Food & Natural Resources Career Cluster

**Activity
1.6**

Name _____ Date _____ Hour _____

Career Bingo

Student Materials

Pencil

Directions

Using the list provided by your teacher, fill in the BINGO game board with one career title in each box.

B	I	N	G	O
		Free		

B	I	N	G	O
		Free		

B	I	N	G	O
		Free		

B	I	N	G	O
		Free		

Ag Accountant

Ag Engineer

Ag Lawyer

Ag Teacher

Agronomist

Aquaculturist

Auctioneer

Butcher

Chemical Dealer

Crop Duster

Custom Harvester

Extension Specialist

Farmer Computer

Feedlot

Floral Designer

Food Microbiologist

Food Processor

Forester

Golf Course Superintendent

Grain Elevator

Greenhouse Manager

Horse Trainer

Land Surveyor

Landscape Contractor

Livestock Production Manager

Loan Officer

Mechanic

Farrier

Nutritionist

Park Ranger

Rancher

Sheep Shearer

Truck Driver

USDA Employee

Veterinarian

Welder

Zoologist

Activity 1.7

Name _____ Date _____ Hour _____

Interest Survey



Student Materials

Pencil

Exercise 1: Career Interests

This activity helps you match your interests with types of careers. For each of the 86 items below, circle the letter of the activity you would rather do. It doesn't matter if you like both of them a lot or dislike both of them a lot; just pick the one you would rather do, and circle that letter.

1. A. Operate a printing press
B. Study the causes of earthquakes
2. C. Plant and harvest crops
R. Replace car window and fender
3. E. Measure and grade tree logs
F. Run a machine
4. G. Work in an office
H. Answer customer questions
5. D. Write reports
J. Help someone just out of prison find a job
6. L. Design a freeway
M. Plan educational lessons
7. N. Balance a checkbook
O. Take an X-ray
8. P. Write a computer program
Q. Train animals
9. C. Be in charge of replanting forests
A. Act in television and movies
10. D. Solve a burglary
F. Check products to make sure they were made right
11. E. Build an airport
G. Keep business records for a company
12. F. Put small tools together
P. Design a Web site
13. M. Tutor students
Q. Work at a zoo
14. J. Take care of children
O. Plan special diets
15. A. Choreograph a dance
K. Lobby for a cause
16. H. Sell clothes
E. Work with hands
17. I. Work at an amusement park
N. Broker insurance
18. I. Learn about ethnic groups
P. Manage a computer information system
19. N. Appraise the value of a house
M. File books at the library
20. E. Make three-dimensional items
D. Analyze handwriting
21. B. Design sprinkler systems for a new building
F. Run a factory sewing machine
22. G. Develop personnel policies
Q. Train racehorses
23. D. Work as a security guard
H. Work in a department store
24. A. Write for a newspaper
G. Use a calculator
25. O. Help people at a mental health clinic
L. Remodel old houses
26. M. Care for young children
D. Locate a missing person
27. N. Plan estate disbursement
P. Enter data
28. A. Design a book cover
E. Assemble toys following written instructions
29. B. Figure out why someone is sick
R. Fly an airplane
30. C. Learn how things grow and stay alive
H. Sell cars
31. I. Work as a restaurant host or hostess
D. Fight fires
32. G. Keep payroll records for a company
J. Work in a nursing home
33. G. Hire new staff
O. Operate ventilators – help people breathe
34. R. Drive a taxi
A. Be a news broadcaster
35. K. Work for the IRS
B. Sort and date dinosaur bones
36. O. Give shots
C. Design landscaping
37. P. Provide technical support for computer users
D. Work in a courtroom
38. Q. Care for injured animals
I. Serve meals to customers
39. L. Build kitchen cabinets
N. Refinance a mortgage

40. A. Sing in a concert
R. Direct the take-off/landing of planes
41. G. Operate a cash register
B. Collect rocks
42. G. Start own business
L. Draft a blueprint
43. M. Assess student progress
L. Design an airplane
44. O. Wrap a sprained ankle
I. Guide a tour group out of the country
45. P. Work on solving technical problems
J. Be a minister
46. Q. Manage a veterinary clinic
K. Lead others
47. E. Operate heavy equipment
Q. Manage a fish hatchery
48. F. Assemble cars
K. Protect our borders
49. A. Play an instrument
J. Plan activities for adult day care
50. C. Research soybean use in paint
J. Provide consumer information
51. D. Guard money in an armored car
B. Study why people do the things they do
52. E. Fix a television set
M. Be an instructional leader of a school
53. F. Fix controls on a control panel
J. Help a friend with a personal problem
54. C. Oversee a logging crew
B. Study weather conditions
55. R. Pack boxes at a warehouse
A. Teach dancing
56. O. Sterilize surgical instruments
B. Study soil conditions
57. N. Play the stock market
C. Protect the environment
58. M. Grade papers
R. Be a railroad engineer
59. L. Order building supplies
E. Paint motors
60. P. Develop new computer games
H. Buy merchandise for a store
61. K. Work to get someone elected
C. Identify plants in a forest
62. D. Guard inmates in a prison
L. Read blueprints
63. H. Line up concerts for a band
K. Ask people questions for a survey
64. E. Manage a factory
O. Work as a nurse in a hospital
65. A. Paint a portrait
K. Testify before Congress
66. B. Work with a microscope
I. Make tee times at a golf course
67. C. Classify plants
O. Transcribe medical records
68. F. Install rivets
Q. Raise worms
69. N. Balance accounts
M. Develop learning games
70. J. Read to sick people
P. Repair computers
71. F. Compare sizes and shapes of objects
Q. Fish
72. R. Repair bicycles
K. Deliver mail
73. M. Teach Special Education
P. Set up a tracking system for lost packages
74. G. Manage a store
H. Advertise goods and services
75. R. Distribute supplies to dentists
I. Compete in a sports event
76. I. Check guests into a hotel
M. Teach reading to adults
77. L. Follow step-by-step instructions
N. Work at a collection agency
78. O. Deliver babies
H. Persuade people to buy
79. R. Inspect cargo containers
F. Work in a cannery
80. I. Coach a school sports team
P. Set up a Web site
81. Q. Hunt
K. Enlist in a branch of the service
82. H. Sell sporting goods
J. Cut and style hair
83. B. Conduct experiments to find new metals
N. Be a bank teller
84. G. Work with computer programs
N. Loan money
85. L. Hang wallpaper
D. Make an arrest
86. H. Stock shelves
I. Serve drinks at a concession stand

Exercise 2: Career Evaluation

STEP 1:

Go back through Exercise 1 and look at the letters you circled. Count the number of times you circled the letter “A” for your response. Write that number next to the “A” in the table below.

Next, count the number of times you circled the letter “B” for your response. Write that number next to the “B” in the table. Continue counting and recording your responses until you have completed the table.

A	F			= 86
B	G	K	O	
C	H	L	P	
D	I	M	Q	
E	J	N	R	
Total	Total	Total	Total	

STEP 2:

Now write down the two letters with the most responses. These are your top two areas of career interest. (If you have a tie, list three.)

STEP 3:

Read the description of your top area of career interest on the following page. Record your interest and the Career Cluster it is listed under.



Career Interest Areas

Listed below are 16 Career Clusters and the areas of career interest related to each.

Agriculture, Food & Natural Resources

- C. Plants:** Interest in activities involving plants, usually in an outdoor setting.
- Q. Animals:** Interest in activities involving the training, raising, feeding, and caring for animals.

Architecture and Construction

- L. Designing and Building:** Interest in designing, planning, managing, building, and maintaining physical structures.

Arts, A/V Technology and Communications

- A. Artistic:** Interest in creative or performing arts, communication, or A/V technology.

Business, Management and Administration

- G. Business Detail:** Interest in organizing, directing, and evaluating business functions.

Education and Training

- M. Teaching:** Interest in planning, managing, and providing education and training services, including support services, library, and information services.

Finance

- N. Banking, Investments and Insurance:** Interest in financial and investment planning and management and providing banking and insurance services.

Government and Public Administration

- K. Administration:** Interest in performing government functions at the local, state, or federal levels.

Health Science

- O. Care and Prevention:** Interest in helping others by providing diagnostic, therapeutic, informational and environmental services, including researching and developing new health care services.

Hospitality and Tourism

- I.** Interest in helping others with travel planning and hospitality services in hotels, restaurants, and recreational pursuits.

Human Services

- J.** Interest in helping others with their mental, spiritual, social, physical, or career needs.

Information Technology

- P.** Interest in the design, development, support, and management of hardware, software, multimedia, systems integration services, and technical support.

Law, Public Safety, Corrections and Security

- D.** Interest in judicial, legal, and protective services for people and property.

Manufacturing

- E. Mechanical:** Interest in applying mechanical principles to practical situations using machines, hand tools, or techniques.
- F. Industrial:** Interest in repetitive, organized activities in a factory/industrial setting.

Marketing, Sales and Service

- H.** Interest in bringing others to a point of view through personal persuasion, using sales/promotional techniques.

Science, Technology, Engineering and Mathematics

- B.** Interest in discovering, collecting, and analyzing information and applying findings to problems in science, math, and engineering.

Transportation, Distribution and Logistics

- R.** Interest in the movement of people, materials, and goods by road, pipeline, air, railroad, and water.

Adapted from Washington State's "Where are you going? Career Guide" funded through the 1998 Carl D. Perkins Vocational Act.

Activity 1.8


Name _____ Date _____ Hour _____

Double Puzzle

Student Materials

Pencil

Directions

Unscramble each of the clue words. Take the letters that appear in  boxes and unscramble them for the final message.

ERUCRAILUGT

										
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ICGASRINCEE

											
--	--	--	--	--	--	--	---	--	--	--	--

TLCUSER

							
--	--	--	--	--	--	--	---

PAWHYAT

							
---	--	--	--	--	--	--	--

OSALG

					
--	--	--	--	--	---

EEOGCL

							
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
SJBO

				
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LLISK

						
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SENRESTIT

								
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GARNINTI

							
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DUEOINACT

								
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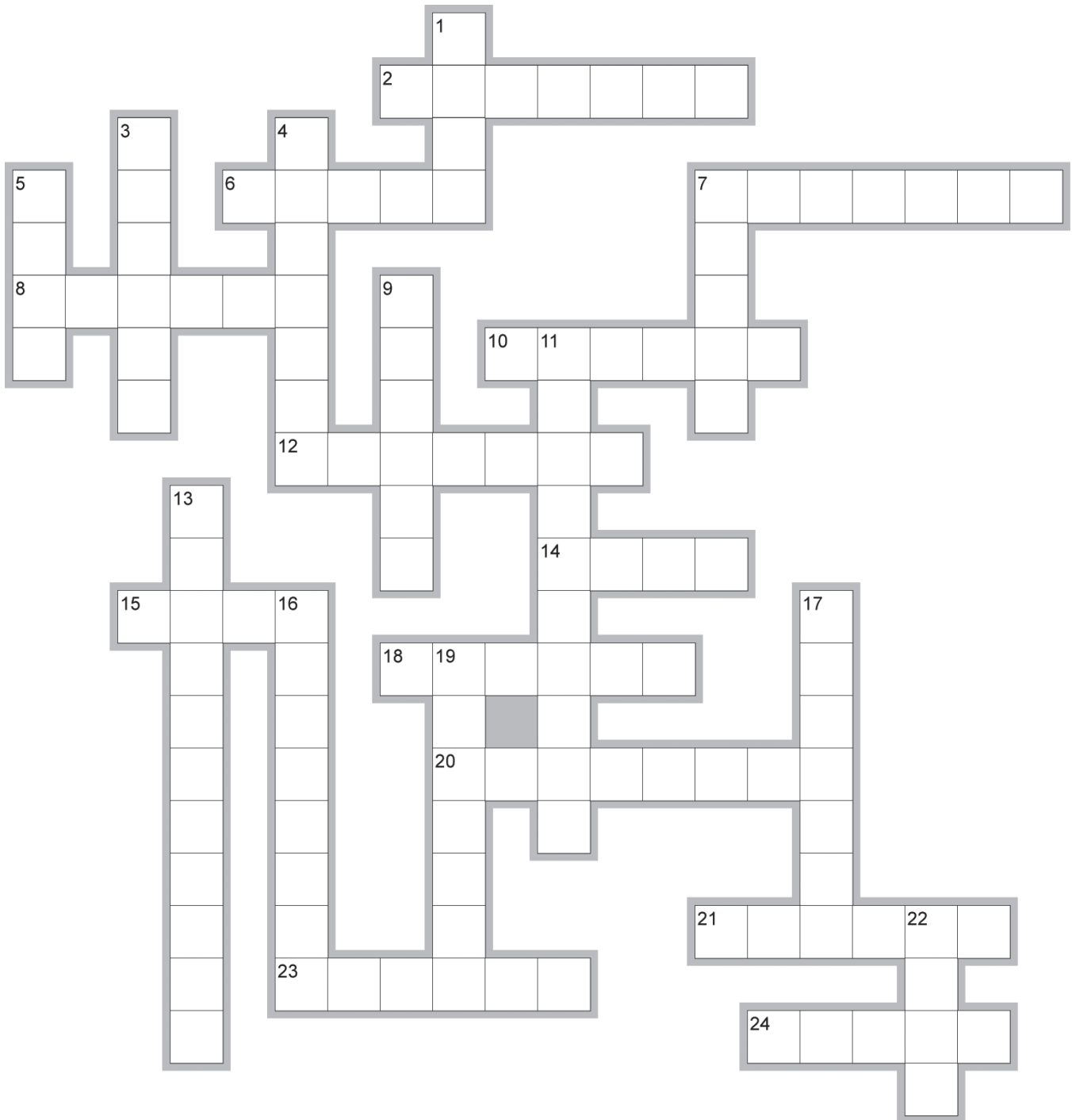
Final Word

		P									
--	--	----------	--	--	--	--	--	--	--	--	--

**Activity
1.9**

Name _____ Date _____ Hour _____

Unit Review Crossword



EclipseCrossword.com

Across

2. The Animal Science pathway includes livestock and ___ management.
6. A graduate degree may take many ___ to obtain.
7. Example of a specific skill
8. When choosing a career path, you can always ___ your plan.
10. A job may have ___ hazards.
12. There are sixteen career ___.
14. Organizing skills include the ability to set-up and keep schedules.
15. Plant and soil sciences have improved ___ management.
18. Occupational information can be found in ___ databases.
20. You should research the education and ___ requirements of a possible career.
21. Interpersonal relations skills include the ability to ___ carefully and attentively.
23. Your ___ and abilities should match the career you choose.
24. Careers in the Agricultural Communications pathway may produce ___ segments.

Down

1. Part-time ___ can give you useful education and skills for a career.
3. Some jobs may require extensive ___.
4. The most significant development in food products and processing has been ___ engineering.
5. The Agribusiness and Management pathway includes the study of ___ and agribusiness management.
7. Careers in the Natural Resources and Environmental Science pathway work to take care of the environment through pollution and ___ control.
9. When deciding career goals you need to define your ___ needs and wants.
11. Agricultural engineering includes work ___ engineering.
13. Term used to describe the application of agricultural principles and new technologies
16. Each career cluster is broken down into career ___.
17. Analyzing skills include developing ___.
19. One career clusters is agriculture, food and ___ resources.
22. Written communications skills include the ability to ___ written material.