1

AGRICULTURAL ECONOMIST • AGRICULTURAL SCIENCE AND BUSINESS TEACHER

Name	Date	Period

STUDENT MATERIALS

- Pencil
- Posters

Agricultural Economist
Agricultural Science and Business Teacher

DIRECTIONS

Use the clues and information in the posters to complete the crossword puzzle.

Across

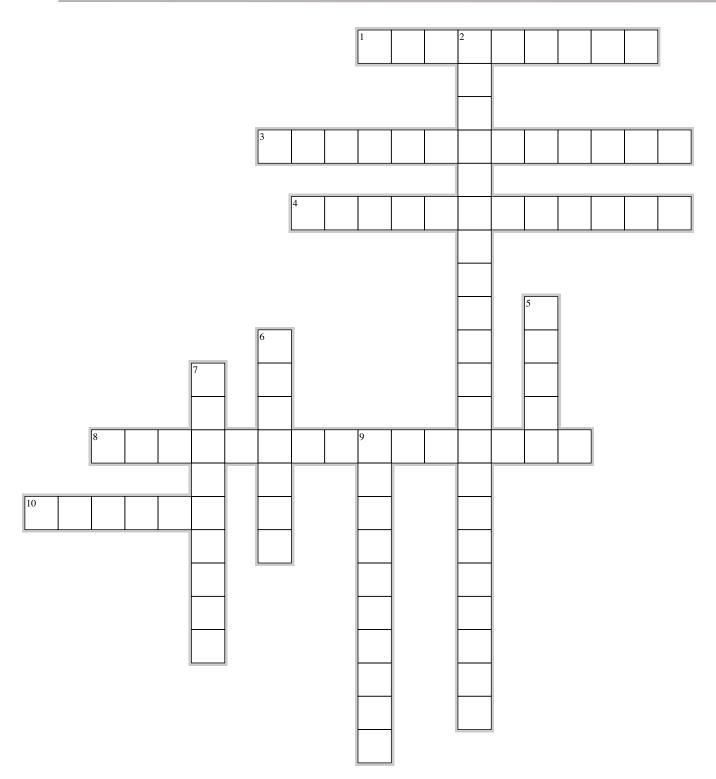
- 1. This type of institution may hire agricultural economists
- 3. Agricultural science and business teachers take courses in this and science in college
- 4. These firms provide things such as animal health, chemicals, seed and/or fertilizers
- 8. An undergraduate major in agricultural education is used to obtain this
- 10. Agricultural science and business teachers often work with these community members to teach agricultural production, business, or mechanical subjects

Down

- 2. Uses communication, analytical, and business skills to find success in sales, marketing, management, and finance
- 5. Many agricultural economists start their careers as this type of representative
- 6. Agricultural science and business teachers serve as this for the local FFA chapter
- 7. Along with the ability to work with people, agricultural economists must be able to make these
- 9. Agricultural science and business teachers emphasize this in addition to personal growth and career success

1

AGRICULTURAL ECONOMIST • AGRICULTURAL SCIENCE AND BUSINESS TEACHER



Eclipse Crossword.com

CIMC www.okcimc.com

2

AGRICULTURAL ENGINEERING • REMOTE SENSING SPECIALIST

Name _____ Date_____ Period_____

 STUDENT MATERIALS Pencil Posters	
DIRECTIONS	
Fill in the blank with the correct terr	n from the word bank. Find the word within the word search.
1.	Agricultural apply basic science and engineering principles.
2.	Agricultural engineers agricultural machinery and facilities.
3.	Remote sensing specialists analyze photographs and satellite images.
4.	Color photos may be used to map forest types.
5.	Agricultural engineers are by builders.
6.	Federal and agencies may hire remote sensing specialists.
7.	Agricultural engineers should enjoy problems.
8.	Remote sensing specialists enjoy working with and computers.
9.	Most remote sensing specialists are knowledgeable in Geographic Systems.
10.	Agricultural engineers take a wide variety of engineering courses in college.
11.	High school students interested in becoming an agricultural engineer should get involved in that allow them to communicate or lead groups.
12.	Remote sensing specialists create maps of land use and land, such as deforestation.
13.	Animal systems are designed by agricultural engineers.
14.	Many agencies and industries hire agricultural engineers, including manufacturers ofsystems.
15.	Most remote sensing specialists have earned a college degree in disciplines such as geography, forestry, or agronomy, then in remote sensing.

2

AGRICULTURAL ENGINEERING • REMOTE SENSING SPECIALIST

Word Bank

activities control information solving aerial design infrared specialized changes engineers maps state confinement hired sciences

C Ε S C S Α D D Q M R G 0 W Q Ε C Т T R Α Ρ D Ε D 0 Ν Ε L Α В Z Ν ٧ W Z В Ε Χ F Α C Ε Ν C G ı F N F Ν 0 ı Т Α M R 0 F Ν ı Ε Κ Μ Α R Χ Н ı Т S R Υ Κ ٧ Ρ Ε G C S В N Α ı В S В C Z Ε Q 0 M 0 0 M Α X Α Н N L N ٧ G Α N Υ W S G Q Н Υ 0 Ε ٧ X Ε G D I L Н W Н Ρ Α Ρ Ν G J Α F M C S G R Ν Ε Κ T U C M J S S Ε X U F M Ε U K Ε В Ε Ε S Ε C R R P G Ν Α R Ε D Α Ν ٧ D L M R 0 Υ Α 0 Т R C Ε В G Н Т G Ν 0 S Ε ı Χ V L J В M Α В Н Χ 0 Ν G S Κ G U M S M J S U Т L J S R Κ ٧ L ı R S Υ Н X 0 S Q Т Т C Z Н C D 0 M X X W Q J M 0 K M Ε C D 0 Ε Ρ D C X Q D C Т F Т 0 Z D Q

3

CIMC

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AGRONOMIST • SOIL SCIENTIST • RANGE MANAGER • WEED SCIENTIST

Name	D)ate	Period
STUDENT MATERIALS • Pencil • Posters Agronomist Soil Scientist Range Manager Weed Scientist			
DIRECTIONS			
Complete each sentence with a one	-word answer using the information from th	e posters.	
1.	Agronomists deal with among plant	ts, soils and the envi	ronment.
2.	Soil scientists map and soils.		
3.	Range managers care for the country's va	ıst	
4.	Rangelands produce a sustained o	f forage, wildlife, red	meat, and clean water.
5.	Weed scientists teach, perform, an	d work in extension.	
6.	Agronomists develop new crop hybrids an	d that grow m	nore efficiently.
7.	Private hire range managers to ma	nage ranches or oth	er land.
8.	Soils conduct research in everythin management.	g from basic to appli	ied issues of soil and water
9.	Soil scientists are hired by universities, procompanies to name a few.	ivate industries,	agencies, and chemical
10.	Weed scientists work for agriculturaland regulation.	_ firms in research, c	development, sales, marketing
11.	Range managers need a degree in	range science, mana	agement, or natural resources.
12.	Agronomists work for the USDA, state dep	partments of agricult	ure or the Soil Service.

3

AGRONOMIST • SOIL SCIENTIST • RANGE MANAGER • WEED SCIENTIST

	Diagnosing problems in weed systems for private crop consulting companies is a duty of weed scientists.
14.	People looking to become a soil scientist should like working in the outdoors and studying
15.	Agronomists generally have interest in science and issues.
16.	Range managers who desire to teach or conduct research should obtain a degree.
	Weed scientists who desire to perform laboratory research should earn a degree in chemistry, or plant physiology.
	Soil Scientist often are called upon to identify soil problems such as wetness or that limit soil use.
19.	Soil scientist are interested in how nutrients and pesticides move through the soil
20.	Agronomists can even be employed as forecasters.

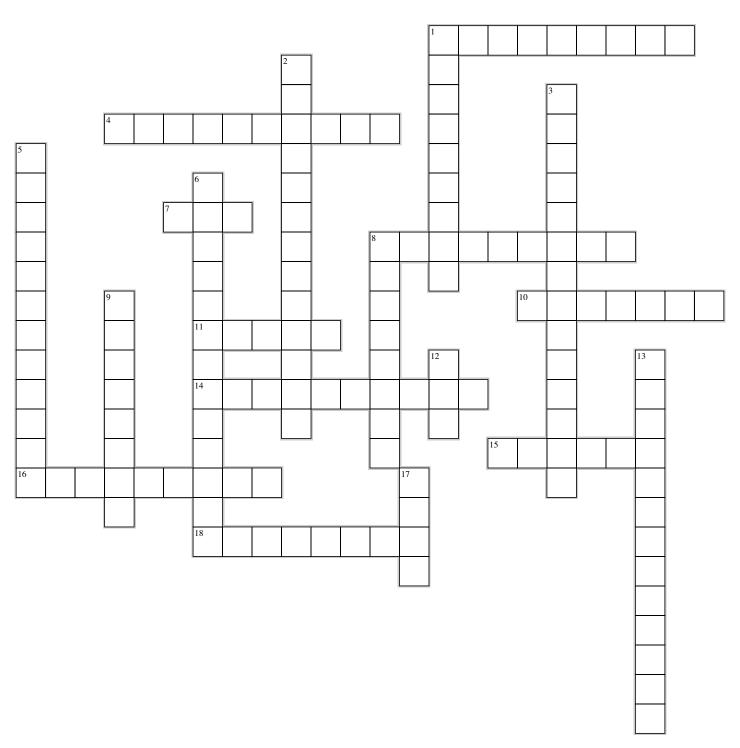
4

Animal Geneticist • Animal Nutritionist • Animal Physiologist

Name	Date	Period
STUDENT MATERIALS • Pencil • Posters Animal Geneticist Animal Nutritionist Animal Physiologist		
DIRECTIONS		
Use the clues and information in the posters to complete the c	crossword puzzle.	
Across 1. In addition to a master's degree, many animal geneticist 4. To become a physiologist, you should take classes and of 7. Animal nutritionists can teach the science and of 8. Animal nutritionists diets for food, companion, or 10. Animal physiologists should be interested in animals and 11. In sciences, animal geneticists try to understand 14. Diets must be nutritionally sound, good-tasting, and 15. Genes affect important such as reproduction or b 16. Marker-assisted can be used to improve a wide ra 18. Animal nutritionists who desire research or management	do projects. nutrition. zoo animals. d their gene functions ehavior. ange of important traits.	
1. Building routinely consult animal physiologists as 2. Physiologists at universities teach students who want to 3. Animal geneticists may work for animal companie 5. Animal geneticists are hired by to conduct resear 6. Some animal geneticists may focus on developing new r 8. Animal physiologists study how animals 9. Geneticists may develop new drugs to combat 12. Animal geneticists may try to genes. 13. How animals interact with outside factors is one interest 17 suppliers may consult animal physiologists on hor	become es. ch, teach, and perform outreach. mating strategies for of animal	

4

ANIMAL GENETICIST • ANIMAL NUTRITIONIST • ANIMAL PHYSIOLOGIST



Eclipse Crossword.com

5

CIMC

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ANIMAL WELL-BEING SPECIALIST • VETERINARIAN

Name	Date	_ Period
STUDENT MATERIALS • Pencil • Posters Animal Well-Being Specialist Veterinarian		
DIRECTIONS		
Fill in the blank with the correct ter	n from the word bank. Find the word within the word search.	
1.	Animal well-being combines fields such as behavior, immunology,	and neuroscience.
2.	Veterinarians complete a D.V.M which is a Doctor of Veterinary	_ degree.
3.	Veterinarians safeguard health by controlling diseases that car humans.	spread from animals to
4.	To determine the best environmental conditions, animal well-being specia	alists plan and run
5.	Animal well-being specialists communicate information through publication meetings.	cations or to farmers at
6.	Animal well-being specialists must be interested in both science and	perception.
7.	Many veterinarians start their own or join group practices.	
8.	To become a veterinarian, you must complete at least years of school.	f education beyond high
9.	Veterinarians can work for or pharmaceutical companies.	
10.	Animal well-being specialists may work with animals, zoo animals.	nals, or companion
11.	Animal well-being specialists must have the ability to effectively	·
12.	In addition to a minimum of three years of undergraduate work, four y is required to complete the D.V.M.	ears of curriculum
13.	Basic math and abilities are required of animal well-being spe	cialists.
14.	Graduate students in animal well-being take more courses in	specific disciplines.
15.	Veterinarians may join the, work as researchers, teachers or o	clinicians.

5

ANIMAL WELL-BEING SPECIALIST • VETERINARIAN

Word Bank

agricultural experiments military seven nutrition businesses extension specialized communicate human professional statistics endocrinology medicine public Υ G 0 R C 0 Ν Ε Ε Χ Χ U Ε L 0 Ν D L K В Z S Α K Α В M S Κ U G U Κ U Н U Ν Ε F K Ρ D K L R Ρ Ν T T Α J K Q Υ Ν Н S ٧ I Ε S Κ C S C 0 M Q Н U Α Ν 0 0 В R Z C U Т Ε Ρ Ε R Ε Q Κ Т R X ı T S Ν M Ν ı S 0 M Ν M S T Ε В D 0 T S S Α U Α R U U C S S U S D ٧ Ε C C D Ε Ε Z S C Υ T T M L Α N Н K ٧ G M M W W T Q R Κ R ٧ K Ε D M M Z Z C Т 0 R В R S Ε Ν S Ε В ı U Χ 0 0 Κ S D C X G C Ε G Ν Ν G Ν R U В C W Υ ı Q Α Ζ Κ U Ε D D ٧ U Α Ρ 0 L U L Н Ν ı 0 Z В Μ 0 S Α Ν Α K W Ν W Ε U Ρ S D Q Q Н ٧ Н ٧ X L Q Ε M C X G ٧ Α R Q R S Ε X Ε 0 D Ν W 0 Ν

6

CIMC

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AQUACULTURIST • FISHERIES SCIENTIST

Name	Date	Period
STUDENT MATERIALS • Pencil • Posters Aquaculturist Fisheries Scientist		
DIRECTIONS		
Complete each sentence with a one	e-word answer using the information from the posters.	
1.	Fisheries scientists are concerned with effective management and animals.	ent, use, and of aquatic plants
2.	Aquaculturists raise a variety of plants and animals stocking bodies of water.	s with the goal of producing food or
3.	The first job of many aquaculturists is stocking por	nds.
4.	Aquaculturists who become managers are charged to sup equipment, and plan	ervise workers, purchase feed and
5.	Fisheries scientists uses their knowledge to protect and e aquacultural fisheries resources.	nhance recreational,, and
6.	Large operations are often integrated and have their o	own feed mills and processing plants
7.	Fisheries scientists are often employed as federal	
8.	Aquaculturists often work for governments or in res	search.
9.	Fisheries scientists should earn a degree.	
10.	Aquaculture is a type of	
11.	Feed companies may hire an aquaculturist to prod	ucts to fish farmers.
12.	Entry level aquaculturists are normally required to comple	ete a high school

AQUACULTURIST • FISHERIES SCIENTIST

 13.	Aquaculturist managers often have college degrees and understand quality, nutrition, business, and economics.
 14.	High school students aspiring to become aquaculturists should take courses in repair and maintenance of machinery and engines,, construction, and other shop classes.
 15.	Some fisheries scientists work as specialists.

7

CIMC

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MARINE SCIENTIST • HYDROLOGIST

Name		Date	Period
STUDENT MATER I Pencil Posters Marine Scientist Hydrologist	IALS		
DIRECTIONS			
Fill in the blank with the co	rrect tern	n from the word bank. Find the word within the word search.	
	1.	Hydrologists concerned with water supplies manage and problems.	d ground water to avoid
	2.	Hydrologists assess how land use affects water	
	3.	A few marine scientists conduct environmental studies for the _	industry.
	4.	Hydrologists working on water quality problems deal with the chen properties of water.	nical, physical, biological, and
	5.	New opportunities are available for marine scientists in bioengi conservation biology.	neering,, and
	6.	A marine scientist needs a keen interest in conservation and	and marine resources.
	7.	State agencies and associations dealing with natural resour	rces also employ hydrologists.
	8.	Hydrologists help assess and our water supplies and wa	iter quality.
	9.	Marine scientists address problems and issues facing marine _	·
	10.	The agencies which manage our natural resources all hi	re hydrologists.
	11.	Marine scientists gather data in the field or laboratory.	
	12.	Marine scientists are often called upon to help solve problems importance.	of great or political
	13.	Hydrologists appreciate natural and enjoy working with p	people.
	14.	Marine scientists should have a keen interest in and coa	stal/marine resources.
	15.	Many hydrologists work as private consultants and are concern	ed with production.

7

MARINE SCIENTIST • HYDROLOGIST

Word Bank

aquaculture coastal conservation economic						federal life petrochemical protect						quality radiological resources surface					sustainable systematically watershed					
К	М	S	X	G	н	S	w	Q	N	н	R	L	L	S	K	Q	V	E	S	Ε	L	
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E	N	L	Q	ı	Υ	S	U	S	Т	Α	ı	N	Α	В	L	E	F	н	Α	E	R	
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8

BIOCHEMIST • BIOLOGICAL ENGINEER • SCIENCE WRITER

Nan	me	Date	Period
ST	UDENT MATERIALS		
• Po B B	encil osters Biochemist Biological Engineer Science Writer		
DI	RECTIONS		
Use	the clues and information in the posters to complete	e the crossword puzzle.	
7. 11. 12.	Where science writers can work writing science are science-based corporations. Some biochemists will ultimately end up working in Biological engineers study this kind of organisms. Conducted in a laboratory; at the heart of what more where a biochemist works.	n research and	ories, or business stories about
Dow	/n		
3. 4. 5. 6.	A strong background in this is needed to be a scie Science writers describe this without using scienti This type of engineering has the potential to be ve Some biochemists earn medical or degrees Biochemists work to figure out how cells protect the Science writers about he sales to communicate with the sales to communicate with	fic terms ery different than traditional engineering s then practice medicine. nemselves from these	disciplines
	Science writers should be able to communicate wi Knowledge collected by biochemists can be transl industry		alth, consumers and what other
	They explore the chemical events that cause biological engineering is the		urces for the use in energy

applications

BIOCHEMIST • BIOLOGICAL ENGINEER • SCIENCE WRITER

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Eclipse Crossword.com

9

CIMC

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BIOMETRICIAN • NANOTECHNOLOGIST

Name		Date	Period
STUDENT MATERI	ALS		
PencilPostersBiometricianNanotechnologist			
DIRECTIONS			
Complete each sentence w	ith a one	e-word answer using the information from the posters.	
	1.	Biometricians advise who are planning experiments.	
	2.	Sometimes biometricians forecast conditions of resource	es like forests or watersheds.
	3.	Nanotechnologists enjoy learning new things, working with cutt developing to society's problems.	ing-edge science, and
	4.	Nanotechnologists work in research and in universities of	or industry.
	5.	particles are used to help solve a particular problem for	nanotechnologists.
	6.	The biometrician's are important to quality control and as operations management.	ssurance in research and
	7.	Often biometricians work as part of a	
	8.	A person should be intensely and enjoy facing a challen	ge to be a nanotechnologist.
	9.	Increasingly, researchers are studying the effects of nancthese new materials are safe.	o-sized particles to make sure
	10.	Large environmental consulting firms want biometricians' skills	in and evaluation.
	11.	Nanotechnologists must communicate with many different peop field.	le to stay informed about this
	12.	Universities hire biometricians to support researchers.	
	13.	Nanotechnologists usually their own research topics.	

9

BIOMETRICIAN • NANOTECHNOLOGIST

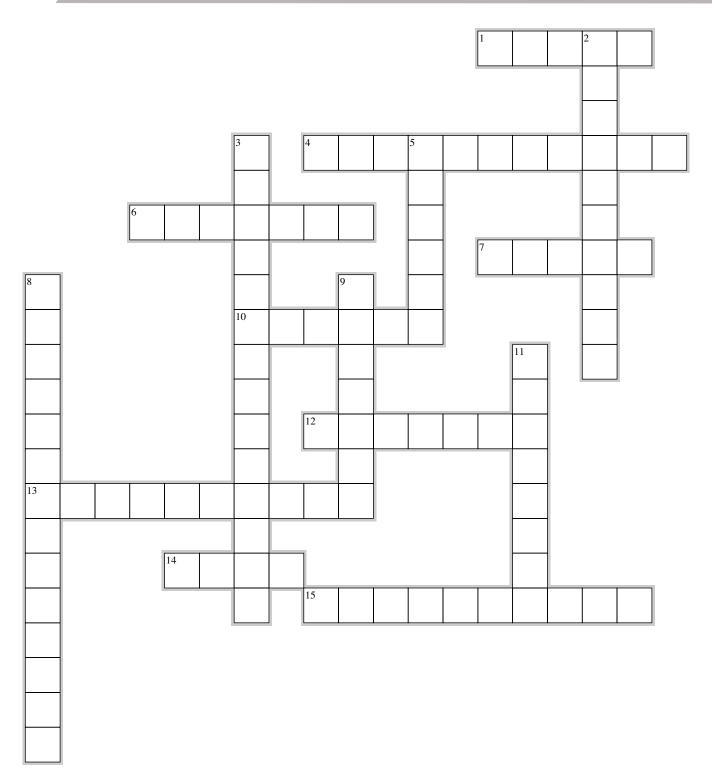
 14.	Biometricians may conduct their own research to improve understanding of subjects like crop development or climaters.	
 15.	Biometricians work for state agencies seeking staff	for research, planning, or

10

CONSERVATION BIOLOGIST • RENEWABLE ENERGY SPECIALIST • ENVIRONMENTAL SCIENTIST • WILDLIFE BIOLOGIST

Name		Date	Period
PencilPostersConservRenewaEnviron	T MATERIALS ation Biologist ble Energy Specialist nental Scientist Biologist		
DIRECT	IONS		
Use the clu	es and information in the posters to complete th	e crossword puzzle.	
 While Many Corpo After emplo Feder enviro Whole Some Conso 	wildlife biologists enjoy working outdoors with venvironmental scientists the environmental scientists the environmental scientists in the air, water, he enactment of the National Environmental ying more wildlife specialists to produce environal agencies like the Environmental Protection Anmental scientists. are also protected and managed by conscients are also protected and managed by conscients work with captive animal ervation biologists study rare and species	vildlife, much of their job involves t. or land also hire environmental scie Act of 1969, environmental and nmental impact statements and othe gency and the Resources Co servation biologists. als in	entists. other consulting firms began or planning documents.
 Many A rene Rene Creat the re 	ervation biology grew when people became mor parks hire wildlife biologists for wildlife ewable energy specialist helps ensure that we convable energy specialists often act as between genergy from the wind, crops, agriculture and the energy specialists. biologists do research that help us better managements.	an meet the world's needs in veen divergent groups and bring groural residues, municipal wastes, or s	the future. ups together through networking.

CONSERVATION BIOLOGIST • RENEWABLE ENERGY SPECIALIST • ENVIRONMENTAL SCIENTIST • WILDLIFE BIOLOGIST



Eclipse Crossword.com

11

ECOLOGIST • NATURALIST • CLIMATOLOGIST

Name Date 1 crou	Name	Date	Period
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STUDENT MATERIALS

- Pencil
- Posters

Ecologist

Naturalist

Climatologist

DIRECTIONS

Use the clues and information in the posters to complete the crossword puzzle.

Across

- 3. Study climate change, climate variability, and the effects of climate on the biosphere
- 4. Naturalists should earn a degree in this type of science
- 9. As this increases in the environment, ecologists work becomes more important
- 10. Ecologists ask scientific questions about the relationships between the environment and what
- 11. The type of classrooms naturalists teach school groups in
- 13. Climatologists use these to predict the effect of weather or climate on the growth and development of grain, vegetables, fruit and other crops
- 14. Climatologists work for state and federal governments as this type of station network supervisors
- 15. Naturalists help people learn to live here without destroying the environment

Down

- 1. They ask scientific questions about the relationships between organisms and their environment
- 2. Naturalists teach but rarely in this type of classroom
- 5. Are scientists and skilled communicators
- 6. Ecologists study ways to protect and manage this kind of resources
- 7. A strong background in math and this is needed to be a climatologist
- 8. What climatologists study
- 12. Ecologists usually choose their own type of topics

11

ECOLOGIST • NATURALIST • CLIMATOLOGIST

						1	2						
		3											
			4						5				
	6	-									8	- 	7
10								9					
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12

CIMC

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ENTOMOLOGIST • NEMATOLOGIST

 STUDENT MATERIALS Pencil Posters		
DIRECTIONS		
	rom the word bank. Find the word within the word search.	
	an is a broadly trained and educated professional in a very aspect of our daily lives.	a discipline that touches almost
2. E	intomologists are needed to help farmers and ranche	ers produce crops and livestock.
	are found everywhere: in soil from both poles to the troumans and all domesticated and wild animals.	pics, in bodies of insects, and in
4	live on ocean bottoms and forest floors.	
5. N	Many nematologists who work with these roundworms are inte	rested in plant and animal
	intomologists help farmers and ranchers produce crops and li ound management.	vestock more efficiently by using
7. E	intomologists also help prevent the spread of serious	_ in plants and animals.
8. N	lematologists may work as agricultural scientists concerned	I with crop pest
9. S	ome nematologists specialize in basic research in b	iology.
10. E	intomologists help produce information about specie	S.
	s an entomologist, your natural curiosity and enthusiasm w problems.	ill help solve some the world's
12. S	ome nematologists model systems for the study of	
13. N	lematodes are found in the from both poles to the tro	ppics.
14. A	major in is the best preparation for someone wanting	ig to become an entomologist.
15. A	college degree in a biological science is good preparation	for

ENTOMOLOGIST • NEMATOLOGIST

Word Bank

d e	griculiseas Indan Intom	es gered				gene mana	nolog tics agem cular			nematodes soil nematology toughest pest worldwide roundworms											
N	S	F	R	R	1	L	С	J	S	ı	N	В	V	Y	S	0	ı	L	н	w	X
В	R	X	ı	P	X	Q	Α	w	J	Y	J	G	G	Y	F	X	Y	0	Q	Y	ı
G	J	Т	D	В	E	U	R	P	ı	F	С	0	R	0	0	F	В	L	X	Т	L
D	E	R	E	G	N	Α	D	N	E	V	L	Z	Α	В	N	M	Α	E	Т	S	X
N	Α	N	P	N	1	F	Y	ı	D	0	V	1	K	Y	N	G	E	N	N	E	ı
E	M	X	S	E	N	M	Α	G	Т	S	Т	U	U	ı	R	S	W	T	E	Н	L
S	V	Ο	G	M	Q	N	0	Α	Ο	S	C	L	V	ı	N	0	E	0	M	G	U
D	S	P	R	Α	K	L	M	L	E	L	В	ı	С	U	R	Т	N	M	E	U	т
С	Q	Ο	Q	Т	M	E	V	P	E	J	Ο	U	Т	L	н	0	0	0	G	0	ı
I	E	X	н	0	N	W	N	I	U	C	L	M	D	E	G	С	Т	L	Α	T	E
R	0	U	N	D	W	0	R	M	S	Т	U	W	0	C	N	0	P	0	N	J	Q
w	D	Ο	В	E	X	E	Н	N	U	Z	ı	L	Α	Т	W	E	W	G	Α	Y	L
X	С	н	F	S	D	X	S	R	Т	D	L	Н	Α	Q	N	X	G	ı	M	J	S
J	E	K	F	E	С	С	E	D	E	S	V	Z	Q	R	X	E	С	S	W	Α	S
S	E	S	Α	E	S	1	D	1	Q	Q	J	Α	U	S	X	K	S	Т	X	٧	J

13

HORTICULTURIST • BOTANIST

Name		DatePeriod
STUDENT MATER • Pencil • Posters Horticulturist Botanist	RIALS	
DIRECTIONS		
Complete each sentence	with a one	e-word answer using the information from the posters.
	1.	The Latin words and cultura together form horticulture.
	2.	Today horticulture is more than garden plant
	3.	Horticulturists make plants more to different climates.
	4.	A botanist studies and giant trees.
	5.	Botanists may study the effects of on plants and work toward environmental protection.
	6.	Some botanists produce entire plants from single cells with a technique called tissue
	7.	Other botanists use to develop new or improved plants.
	8.	Botanists who like to be outdoors may be plant
	9.	Horticulturists work in a variety of fields some of which are plant, plant breeding, plant physiology, and plant biochemistry.
	10.	Other fields that horticulturists work are crop production, engineering, and landscape design.
	11.	Horticulturists want to improve crop yield, quality, value, and resistance to insects, diseases, and environmental stresses.
	12.	Some botanists work in resources laboratories.
	13.	Some horticulturists work as tissue culture specialists with fruit, vegetables,, and turf.
CIMC www.okc	imc.com	

13

HORTICULTURIST • BOTANIST

14.	There are botanists that work in botanical gardens,, herbariums, and zoos.
15.	To be a botanist, a bachelor's degree in is needed.
16.	Educational institutions hire botanists as and researchers.
17.	Horticulturists can work in storage, processing and transit of fruits, berries, nuts, vegetables flowers, trees, shrubs and
18.	Horticulturists can be found in offices, laboratories,, and out in production or research fields.
19.	Horticulturists can work in industry, government, or educational
20.	Many different areas complement science and horticulture coursework for college.

14

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FLORIST • TURF SCIENTIST • VITICULTURIST

Nan	ne Date Period
PoPoFT	JDENT MATERIALS encil osters lorist urf Scientist iticulturist
DI	RECTIONS
Use	the clues and information in the posters to complete the crossword puzzle.
3. 6. 9. 11. 13. 15. 16.	Viticulturists work in all 50 states in As turf scientists advance in their careers, they become coordinators, managers, or assistant or managers in corporations. Supermarkets, wholesale florists, large hotels, and also hire florists. For a florist a typical business is A may find himself or herself working in vineyard pruning, trellising, canopy management, and irrigation. A florist can design arrangements. Interest in production has increased tremendously in the United States. scientists must be skilled in science, business, and personnel management. Many florists start their small businesses. Viticulturists may also work in fertilization and mineral nutrition.
4. 5. 7. 8. 10. 11.	Turf scientists help maintain turf, as well as operate computer-controlled equipment. Some viticulturists work with pest management and disease control through selection. With people becoming more and more concerned about the environment and, viticulturists today often work with government regulations. Turf scientists can be golf course superintendents, turf managers for sports, park managers, and grounds manage for corporate headquarters. Turf scientists in advanced positions rely on their expertise to make good purchasing decisions. Courses that should be taken are turf management and plant Opportunities are expanding for viticulturists in research and development as the industry improves management methods. One of the many first jobs a turf scientist can have is working for a course. Florists who become managers conduct sales interviews to secure, commercial, and special events accounts. A shop employee processes incoming flowers.

14

FLORIST • TURF SCIENTIST • VITICULTURIST

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		19									

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15

FOOD PROCESS ENGINEER • FOOD SAFETY SPECIALIST

Name		DatePeriod
STUDENT MATERIA Pencil Posters	LS	
Food Process Engineer Food Safety Specialist		
DIRECTIONS		
Fill in the blank with the corre	ct term	m from the word bank. Find the word within the word search.
	_ 1.	Food engineers (FPEs) research and develop new and existing products and processes.
	_ 2.	Food specialists preserve our food supply by assuring that it is wholesome, sound, and safe.
	_ 3.	FPEs also design processing, handling, and equipment.
	_ 4.	When FPEs are hired as project engineers, they supervise the design,, installation, and start-up of processes.
	_ 5.	Food safety specialists use their knowledge of food principles, food science, bacteriology, microbiology and HACCP theory.
	_ 6.	HACCP stands for Hazard Analysis Control Point.
	_ 7.	Food safety specialists understand and apply governing food protection.
	_ 8.	Food process engineers work in food, chemical,, and pharmaceutical industries.
	_ 9.	FPEs work with processors, equipment suppliers, design and consulting firms, and suppliers.
	_ 10.	Food safety specialists are good who can think on their feet.
	_ 11.	Food safety specialists work for food services, hotels, resorts,, and government agencies.
	_ 12.	and investigations on food products are conducted by food safety specialists.
	_ 13.	To be a food safety specialist a bachelor's degree in science should be earned.
	_ 14.	FPE's typically enjoy solving
	_ 15.	To be a successful food process engineer and science should be enjoyable.
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FOOD PROCESS ENGINEER • FOOD SAFETY SPECIALIST

Word Bank

biochemical construction critical food						insp math	edient ectior n ervers	าร			packaging problems process protection					r	regulations restaurants safety					
N	0	P	С	S	О	0	E	S	R	С	Q	О	т	Υ	G	P	N	w	С	S	W	
R	0	В	О	Н	S	Z	В	ı	N	Α	U	N	G	G	Α	Α	Q	S	K	Т	Н	
X	R	ı	N	K	С	E	P	S	E	0	E	н	0	K	U	С	Q	E	w	N	н	
М	U	P	S	Q	н	G	С	U	E	ı	ı	В	P	X	В	K	S	С	Z	Α	Н	
Α	N	R	Т	M	Α	Т	н	0	D	R	ı	Т	D	M	U	Α	M	N	F	R	F	
S	N	L	R	D	J	P	С	E	R	0	V	0	Α	M	L	G	J	E	В	U	U	
F	E	Q	U	S	W	R	R	Α	c	P	0	E	W	L	X	ı	Z	D	Q	Α	0	
G	N	Z	С	K	I	G	J	н	Q	F	M	L	R	S	U	N	Υ	Q	X	Т	K	
Q	Q	U	Т	Т	N	F	E	Z	L	V	S	Т	М	S	Α	G	Т	Т	В	S	R	
н	J	G	ı	ı	S	M	E	L	В	0	R	P	н	Н	J	M	E	В	N	E	В	
K	N	С	0	R	ı	S	N	0	ı	т	С	E	P	S	N	ı	F	R	Н	R	В	
X	Α	С	N	С	P	R	0	т	E	С	т	1	0	N	S	Α	Α	0	Т	G	В	
L	P	G	Α	Υ	R	Y	D	x	В	E	0	Q	J	E	Y	K	S	D	Q	ı	G	
Α	Α	L	J	U	R	Q	E	ο	Υ	С	Α	P	N	X	L	Α	ı	J	P	н	S	
т	G	S	0	н	U	D	М	N	0	Р	V	G	Z	L	С	1	0	V	В	н	G	

16

CIMC

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FOOD SCIENTIST • NUTRITIONIST/DIETITIAN

Name		Date	Period
STUDENT MATERIA • Pencil • Posters Food Scientist Nutritionist/Dietitian	LS		
DIRECTIONS Complete each sentence with	a one	-word answer using the information from the posters.	
	1.	Food scientists preserve our food supply by assuring its _ and safety.	, color, texture, nutritional quality,
	2.	Food scientists use their knowledge of chemistry, biocher to convert grain, livestock, fruit, and vegetables into new	
	3.	Nutritionists/ help people look and feel well by manutrition, and health.	iking the connection between food,
	4.	A nutritionist can be a healthcare worker, researcher, ma	anager or
	5.	Dietitians are part of the team with doctors, nurse recoveries.	es, or therapists to speed patients'
	6.	Food scientists work as production, quality assura and managers of processing plants.	ance specialists, product developers,
	7.	Some nutritionists/dietitians counsel families, the elderly disabled.	/, women, children and the
	8.	A nutritionist/dietitian is responsible for nutrition t	herapy for disease conditions.
	9.	foods or diet recommendations are found through e	experiments by nutritionists/dietitians.
	10.	A food scientist conducts food research and acts as a tr	ouble-shooter in solving
	11.	Food, researchers and laboratory workers are a	few jobs that food scientists do.

FOOD SCIENTIST • NUTRITIONIST/DIETITIAN

 12.	Other food scientists develop government to safeguard our food.
13.	Nutritionists/dietitians can work in healthcare institutions, schools,, restaurants, daycare centers, health and recreation clubs, government agencies, and food and pharmaceutical companies.
 14.	To become a registered dietitian, an undergraduate American Dietetic Association accredited program and supervised practical experience, then pass the Registration Examination for Dietitians.
 15.	Food scientists need a bachelor's degree in science.

17

LOGGING ENGINEER • FORESTER • WOOD SCIENTIST

Name		Date	Period
STUDENT MATER • Pencil • Posters Logging Engineer Forester Wood Scientist	RIALS		
DIRECTIONS Fill in the blank with the c	orrect tern	n from the word bank. Find the word within the word	sparch
the trank with the c		Logging engineers help design transportation	
	2.	Foresters may spend one day in the and the	e next in the field.
	3.	Wood scientists and technologists expertly convert	to wood products.
	4.	Logging engineers also supervise timber harvests other natural resources during	and ensure protection of soil, water, and
	5.	Logging engineers work with people, highly resources.	machines and computers, and natural
	6.	Foresters must be highly trained technically, but the	ey must also be good
	7.	As of forest resources, foresters must be able the welfare of humanity.	to convince others that forests are vital to
	8.	Wood is a resource.	
	9.	Wood scientists can work in manufacturing, market	ting, technical service, and
	10.	Wood scientists and technologists in technical servi for the chemical companies, machinery manufacture	·
	11.	Some foresters are private who advise lando their timberlands.	wners on the multiple-use management o
	12.	A logging engineer needs to be a problem	
	13.	A logging engineer also needs to have an interest i	n resources.
	14.	Foresters have long-range on environmenta	l issues.
	15.	Wood scientists need a bachelor's degree in wood	science and
CIMC www.okci	mc.com		

LOGGING ENGINEER • FORESTER • WOOD SCIENTIST

Word Bank

communicators consultants efficient laboratory						logging natural renewable research					solver stewards technical technology					Vi	timber views wood				
R	K	В	U	С	1	J	E	ı	w	Α	Y	w	R	K	G	J	V	V	F	R	W
Υ	N	G	W	V	D	S	Q	S	J	н	R	0	н	E	F	N	F	ı	E	N	Y
0	U	J	J	F	N	M	0	ı	т	В	0	0	G	M	N	F	ı	S	E	G	U
E	F	F	ı	С	ı	E	N	Т	Н	N	Т	D	V	Z	E	E	E	G	0	W	D
P	В	F	M	G	T	ı	M	В	E	R	Α	G	L	S	F	Α	W	L	G	P	S
S	D	R	Α	W	Ε	Т	S	U	Q	P	R	Т	E	D	R	0	0	Α	В	0	G
S	R	0	Т	Α	С	ı	N	U	M	M	0	С	L	С	Т	N	N	R	В	С	L
R	D	Т	M	M	Н	D	P	W	Y	F	В	ı	Н	U	Н	X	E	U	L	L	E
N	I	В	Т	R	N	M	E	X	S	Y	Α	J	С	С	S	V	G	Т	M	M	E
S	Т	J	D	С	ı	Y	Т	E	0	W	L	1	E	V	L	N	R	Α	0	J	P
w	0	W	W	G	С	ı	Α	Н	S	Α	X	Т	X	0	G	N	0	N	M	F	М
R	Т	M	0	V	Α	F	N	Н	0	Q	L	F	S	V	W	X	N	С	Α	E	М
Q	R	R	E	J	L	В	X	0	Н	J	Z	R	G	V	Q	N	F	K	U	U	K
Н	F	0	L	F	ı	P	F	N	Т	R	M	Т	J	E	Z	J	J	С	X	V	W
D	F	U	L	В	S	T	J	н	С	0	K	Z	В	T	R	Y	E	Ο	Y	F	N

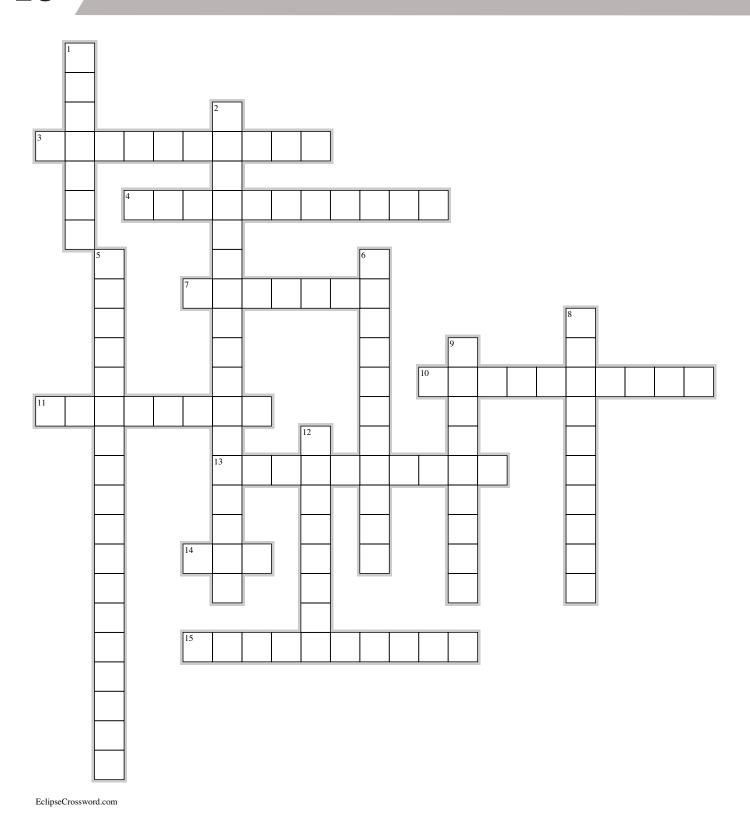
18

GENETICIST • MOLECULAR BIOLOGIST

Nan	ne Date
STI	JDENT MATERIALS
• Pe	encil
	osters
_	eneticist
IV	lolecular Biologist
ודת	RECTIONS
Use	the clues and information in the posters to complete the crossword puzzle.
Acro	SS
	Molecular geneticists create designer genes for production of these kinds of plants and animals
	Geneticists also work to further animals for improved well-being.
	Molecular biologists often ask how genetic information in DNA can change and cause this
	These can be detected and removed from the environment through the work of molecular biologists
	Molecular biologists can be researchers, technicians and these
	A geneticists' goal is to improve the of production and the quality of food and fiber.
	Genetic information encoded in molecules
15.	Geneticists work with all species important for this kind of agricultural production
Dow	n
	Some employ geneticists to breeds and strains of livestock, poultry, and fish
	Geneticists use this when producing superior plants and animals
	Following the flow of genes between and within populations to understand forces of evolution
6.	Try to understand how genes work or where genes are
	Genetics training is desirable for those who are planning to go into this field and health professions
	Type of biologist that studies the phenomena of living things
12.	Molecular biologists can develop new methods to do this and treat disease

Period____

GENETICIST • MOLECULAR BIOLOGIST



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19

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PLANT GENETICIST • PLANT PATHOLOGIST • PLANT PHYSIOLOGIST

Name	Date	Period
STUDENT MATERIALS • Pencil • Posters Plant Geneticist Plant Pathologist Plant Physiologist		
DIRECTIONS		
Complete each sentence with a on	e-word answer using the information from the posters.	
1.	Plant geneticists can work to understand how work.	
2.	Structural are where genes are located.	
3.	Plant geneticists can also follow the flow of genes between and within forces of evolution.	to understand
4.	Plant deal with the symptoms, causes, damage, spread, and cor	trol of plant diseases.
5.	Plant pathologists study processes and look for genetic, biologica controls for diseases of the plants we use for food and fiber.	l, chemical, or cultural
6.	Some work as plant pathologists with the Cooperative Extensio	n Service.
7.	Plant physiologists study the, chemical, and biological functions	s of living plants.
8.	Plant physiologists often work as members of teams.	
9.	Plant physiologists study the effect that genes have on plant growth, _	, and seed yield.
10.	Plant physiologists also carry out experiments to reveal how plants resinsect pests or to environmental stresses.	spond to and
11.	Plant pathologists also work for companies that develop chemical and _	control products.
12.	Some plant geneticists are plant	

19

PLANT GENETICIST • PLANT PATHOLOGIST • PLANT PHYSIOLOGIST

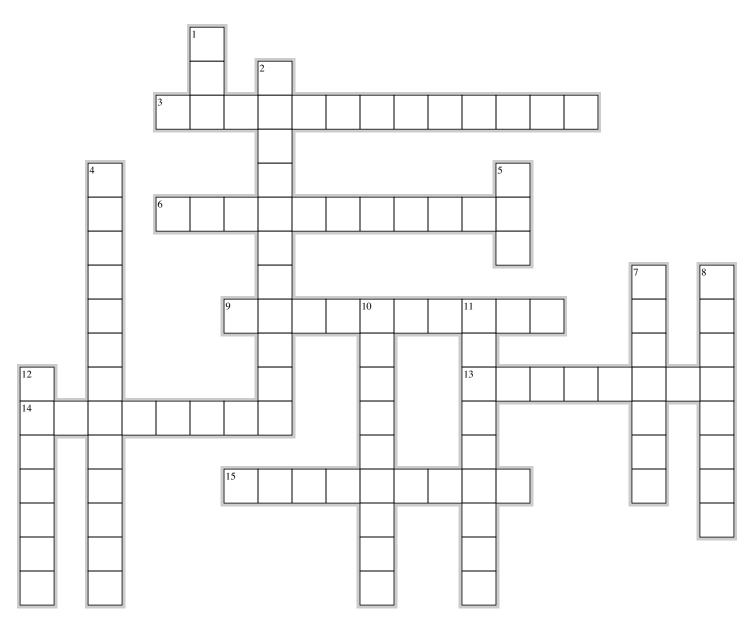
 13.	Private corporations hire plant geneticists to develop such things as new or ne varieties of fruit trees, vegetables, grains, and trees.
 14.	Plant physiologists must be willing to and must continue their education.
 15.	A bachelor's degree in biological is needed to be a plant pathologist.

20

TOXICOLOGIST • VIROLOGIST • BIOTECHNOLOGIST

Name		Date	Period
STUDENT MA • Pencil • Posters Toxicologist Virologist Biotechnologist			
DIRECTIONS	3		
Use the clues and i	information in the posters to complete the	e crossword puzzle.	
6. Virologists ca9. A biotechnologists13. Toxicologists14. Biotechnologi	the effects of potentially harmful chemical nodiscover new viruses or identify viruses gist understands processes and rouse their knowledge to devise strategies sts can be researchers, technicians, or _ nodiscover new viruses or identify viruses	s causing in plants or anin may use that knowledge to diagno to reduce or control to the 	nals. ose or treat a disease. ese chemicals.
 2 study t 4 trained 5. Biotechnologi 7. Virologists as 8. Other biotech 10. Epidemiologis 11. Toxicologists 	needs at least years of study bey the structure of viruses. If in toxicology work in animal health diag tests use a variety of ways to change the g k how interact with cells. Inclogists look for new, individualized treat test is a type of virologist that monitors virus employed by the government or industry tests work to improve the processes for many	nostic laboratories. genetic information in atments for gene-based of us throughout the world. what are that we use ar	·

TOXICOLOGIST • VIROLOGIST • BIOTECHNOLOGIST



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