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Факультет культури й виховання Кафедра іноземних мов

АНГЛІЙСЬКА МОВА:

Методичні рекомендації для здобувачів початкового рівня (короткий цикл) вищої освіти ОПП «Агрономія» спеціальності 201 «Агрономія» денної форми здобуття вищої освіти

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Передмова

Методичні рекомендації для здобувачів початкового рівня (короткий цикл) вищої освіти ОПП «Агрономія» спеціальності 210 «Агрономія» денної форми здобуття вищої освіти призначені для практичної роботи студентів і забезпечують навчальний матеріал для вивчення модулю «Мова професійного спілкування».

Мета даних методичних рекомендацій — забезпечення розвитку мовних та мовленнєвих навичок здобувачів вищої освіти з тем, передбачених навчальною програмою з іноземних мов рекомендованою Міністерством аграрної політики України та підготовка здобувачів вищої освіти до складання іспиту з англійської мови.

Рекомендації складаються з 30 тем за професійною тематикою.

Методичні рекомендації розраховані на 150 год. (5 кр.) аудиторної та самостійної роботи.

За кожну тему студент може отримати від 5-7 балів, що передбачено навчальною програмою з іноземних мов.

Методичні рекомендації розроблені згідно до вимог типової базової програми. Запропоновані тексти забезпечують швидке й ефективне засвоєння студентами лексичного матеріалу.

Для підготовки методичних рекомендацій використовувались матеріали з новітніх підручників, автентичних джерел та періодичних видань.

Unit 1 Backgrounds of agriculture

2 How did farmers control water? A They put gates in ditches.

B They filled ditches with dirt.

Agriculture began in the area known as the Fertile Crescent. The area is a hot, dry desert. But it has two of the requirements for farming: good soil and a water supply. Many early farmers used the Nile River as a water supply. The Nile River floods at the same time every year. Farmers planted crops before the floods. This helped their plants to survive in the desert. Later, farmers created irrigation ditches. They moved water from the Nile River to their fields. They could cultivate crops any time of the year and harvest extra food. Producing extra food was important. Later, farmers fed animals with it. These domesticated animals became another important part of agriculture.

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could cultivate crops any time of the year and	l harvest extra food. Producing extra food was
important. Later, farmers fed animals with it.	. These domesticated animals became another
important part of agriculture.	
1. Read the textbook passage. Then, marl	k the following statements as
true (T) or false (F).	_
1 Crops cannot grow in deserts.	
2 The Nile River floods every year.	
3. Farmers raised animals before plants.	
1. Match the words (1-6) with the defin	nitions (A-F).
1 _ agriculture	A a large group of cultivated plants
2 _ crop	B to put seeds in soil
3 cultivate	C growing plants and raising animals
4 _ produce	D to make something
5 domesticate	E to raise a crop from seeding to harvest
6 _ plant	F to tame an anima
2. Read the sentence pair. Choose whe	re the words best f it the blanks.
1 water supply / irrigation	
A The river is the farmer's	
B helps farmers grow crop	s in areas with little rainfall.
2 harvesting / farming	
A includes raising animals	and crops.
B Farmers wait until crops are mature to	
3. Reading and fill the gaps with the	
excuse me crops ditches water	r control gates
Student:, Mrs. Anderson. I have a qu	lestion about the first farmers.
Teacher: Great. What is it?	
Student: Well, they were in a desert. How did the	
Teacher: Oh, with They connected their	r fields and the Nile River.
Student: Okay. So, moved through the	ne ditches to the fields.
Teacher: Exactly.	
Student: Then, I have another question. How did	theythe water?
Teacher: The ditches had They open	ned and water flowed through.
4. Choose the correct answers.	
I What is the conversation mainly about?	
A a way to predict floods	C the number of early farmers
B an early irrigation method	D the most common early crops

C They carried water in buckets.

D They planted far from the river

Unit 2 Plant products

1. Match the words (1-6) with the definition 1 _ harvest 2 _ legume 3 _ melon 4 _ tuber 5 _ cereal 6 _ farmer's market	A a crop that grows underground B a crop that produces grain C a crop that has peels D crops that have been gathered E a type of large, sweet fruit F a group of farmers selling crops
2. Reading a) Support your local farmers! Come to the farmer's market this Saturday, 8AM-the best yet! FRESH FOOD Buy fresh fruit and vegetables for a Fruit: Delicious melons, strawberries, and blueberr Vegetables: Fresh broccoli, peas, and lettuce. We s *This week we have Thompson's Granola. Thompso CLOTHING We offer some industrial crop products, such as he	a good price! ries. ell tubers and legumes too! on cereal crops are grown on a nearby farm.
b) Read the advertisement. Then, fill in the bland 1 Available fruits: 2 Available vegetables: 3 Cereal products: 4 Industrial crop products: c) Check (1') the sentence that uses the underline 1. A Legumes are a very popular fruit. B Kevin likes to wear hemp clothing. 2 A Many people prefer cereals because the B Vegetables are used in many meals. 3 A Most harvests grow completely underg B Fruit is popular because it is sweet. 4 A Industrial crops are not eaten. B Some tubers are used to make clothes. 3. Complete the conversation with the work	ed part correctly. ey have no seeds. ground.
How much granola Potatoes Help you strawk	-
Farmer: Welcome to the farmer's market. Can I 1 Customer: Yes, please. I want some fresh fruit. Farmer: These 2 are perfect. We pick Customer: Oh, good. And I'd like some 3 Farmer: A three pound bag costs one dollar. Customer: I'll take a bag, thanks. Farmer: Okay. Anything else today?	ed them yesterday.

Customer: Yeah. I saw your ad for 5 Do Farmer: Yes, we do. 6 are	
Unit 3 Animal products	
1. Read the sentence pair. Choose where t	the words best fit the blanks.
1 wool/milk Ais an important food source. B Many clothes are made of	
2 protein / leather A is often used to cover furniture B Plant products and meat contain	
3 meat / by-products A Humans have always used animals for Bare used in many common prod	
2. Read the magazine article. Then, choos	e the correct answers.
MORE THAN	A MEAL
We rely on animals for a number of products and leather. In addition, there is a long list of But we don't always know it. We render fat Marshmallows buttons and tape include bones and baseballs use animal products. Animal by-product rendering very little goes to waste. Meat is just one	f animal by-products. We use them every day. or tallow, into tires, soaps, and candles. d hooves. Wool is often used in carpet. Even s are found in unexpected places. Thanks to
 What is the article mainly about? A Animals that only produce meat B The most popular types of meat Which of the following is NOT a by-product? A fat C hooves What is true of rendering? A It limits waste. B It is a by-product. 	C Products made from animals D Waste products of rendering B bone D protein C It provides protein. D It is in marshmallows.
3. Write a word that is similar in meaning	g to the underlined part.
 Too much oily substance from plants and animal Hard materials that give a body structure are a by The hard feet of animals are used to make tape h Soap is made by melting animal fat r in Fat that is used to make candles is also used in second 	r-product _o s V g

Unit 4 Soil

Dear Green Thumb:

My tomatoes are dying. They get plenty of sun and water. What am I doing wrong? - Tom G.

Dear Tom:

Check the soil. Tomato roots need the right amount of water and air. They don't do well in sand or clay. Both have the wrong soil structure. Sand particles are too loose to hold enough water. Dense clay prevents aeration. You need a soil texture in between those extremes. Loam with high silt is usually good. The other issue is nutrients. A soil's parent material determines what nutrients are in it. You can improve the nutrients by adding humus.

1. Read the newspaper advice column. Then, mark the following statements as true (T) or false (F).

- _ Tomatoes grow well in clay.
- 2 Aeration does not occur in clay.
 3 Humus adds nutrients to soil

2. Match the words (1-6) with the definitions (A-F).

	· · · · · · · · · · · · · · · · · · ·
1 _ soil	A a material made of small pieces of rock
2 _ sand	and mineral
3 silt	B a material that is deposited by water
4 soil texture	C rock and minerals that eventually form
5 parent material	soil
6 dense	D a layer of material that plants grow in
_	E the size of particles in a soil
	F having a lot of material in a small space

3. Fill in the blanks with the correct words and phrases from the word bank

aeration	clay	loam	humus	soil structures
1.0	1 11			
1 Some	_hold more water than	others.		
2 Crops don't	grow well in pure	_soil.		
3 Use	_ to add nutrients to so	il		
4provi	des roots with air.			
5is a mi	x of three soil types.			

Unit 5 Water

DROUGHT CONTINUES

SAN FERNANDO — The Central Valley's current drought is the worst in 50 years. It started five years ago. Average rainfall in the valley is down 35%. Less rainfall in the mountains also limits the water cycle in this already arid region as well.

Many rain-fed crops are dying. Recently, many farmers dug ditches to irrigate them. They used extra groundwater from their wells, too. Many experts say that will create water shortages in the future.

Expect higher prices for many fruits and vegetables this summer. Peaches and nectarines are an exception. Local farmers are growing drought-resistant varieties of those crops.

	1. Read the article from the San	Fernando Sun	newspaper.	Then, choo	se the	correct
answe	rs.					

answers.	
1 What is the article mostly about?	
A a crop shortage	C new irrigation methods
B a lack of rainfall	D new types of crops
2 According to the article, what will cause a water	er shortage in the future?
A raising rain-fed crops	C farming in arid locations
B using extra groundwater	D planting crops in the mountains
3 What is true of the peaches and nectarines?	
A They will not be damaged by the drought.	C They will need more water than most fruits.
B They will be more expensive this	D They will be grown by out of to
year.	farmers.
2. Read the sentence pair. Choose where the ditch / groundwater	the words best fit the blanks.
A Irrigate the crops by digging a	
B Areas with a lot of are ideal for far	ming.
2 shortage / rainfall	
A With so much, Dawn didn't have to water	r her plants.
B Many crops died due to the water	-

3. Match the words (1-4) with the definitions (A-D)

A Linda prefers ____ crops since she lives in an arid region.

1 _	_ water cycle	3	arid
2	drought	4	irrigate

B Andrew doesn't irrigate; his crops are _____

3 rain-fed / drought-resistant

than

of town

C receiving little rainfall D a period of unusual dryness

A to guide water to plants
B the pattern of water moving and changing form

Unit 6 Seeds

Cold-weather hybrid broccoli. Bred for superior seed vigor. Seedlings survive in temperatures down to 37° F. Germination: Soak seeds in water overnight to remove hard coats and end dormancy. Place in 70° F soil to germinate.

Location: Sow in a place that gets full sun.

Sowing method: Use a pen or similar shaped object to prepare holes 0.5 cm deep, 2 cm apart. Drop one seed per hole. Cover with soil. Water.

Days to sprout: 7-14

Days to maturity: 58

Harvest: Cut Buds Before they flower

Price: \$0.5/100g packet

*Bulk orders of 100 or more receive a discount of 10%

- 1. Read the page from The New Gardener's Seed catalog. Then, mark the following statements as true (T) or false (F).
- 1 _ The seedlings can survive below 37° F.
- 2 _ The broccoli seeds have hard coats.
- 3 _ The seeds will sprout within two weeks
 - 2. Match the words (1-6) with the definitions (A-F).

1 _ hard coat	A the firm outer layer of a seed
2 _ germinate	B to sprout from a seed
3 _seedling	C to plant seeds
4 _ seed vigor	D made by parents of different breeds
5 _ hybrid	E a young plant
6 _ sow	F the strength and survivability of a seed

3. Write a word that is similar in meaning to the underlined part.

1	Farmers plant small objects from which plants grow in the spring.
S	d _
2	Each plant has a different number of days until it can be harvested.
D	t _ may
3	Some plants require special ways in which seeds are planted.
_ (owme
4	To plant a large crop, you need a large quantity order of seeds.
В	k
5	Some piants produce seeds that pass the winter in an inactive state.
	_ or y

Unit 7 Plant growth

QUINOA ON THE RISE

Few plants have as much protein as quinoa, and it can grow in many environments. For that reason, it's become popular with gardeners and commercial farmers alike. Check out the following tips to grow quinoa at home.

Quinoa requires full sun to conduct photosynthesis. Sow seeds where the plant will get plenty of light. Provide at least 10 inches between rows to give the roots plenty of space.

If you maintain growth charts, you'll notice that quinoa grows slowly at first. But when the stem reaches about 12 inches, the buds will flower. The plant is ready for harvest when the leaves drop. Only the seedheads will remain. These can be stripped from the branches with little effort. Remove and dry the seeds for your first quinoa harvest.

	1.	Read	the	magazine	article.	Then,	mark	the	following	statements	as	true	(T)	or
false (F).													

- 1 No plant has more protein than quinoa.
- 2 Quinoa sprouts quickly and then slows.
- 3 Farmers who grow quinoa harvest its seeds.

2. Match the words (1-4) with the definitions (A-D).

1 _ photosynthesis	A a narrow part that supports leaves
2 _ branch	B a chemical process that produces energy
3 _ stalk	C a limb of a plant
4 _ quinoa	D a strong plant that is grown for its seeds

0.1	in in the blanks w	till tille collect we	nus ana pinas	cs if our the word by	AIIIX
roots	growth chart	seedhead	leaves	buds	flowering
1. Those	will grow into	flowers.			
2. Plants ab	sorb nutrients from	the soil with their	r		
3. Photosyn	thesis occurs in the	of a plant.			
4. Tom kee	ps a detailed	of his crops to	test how effect	ive his fertilizers are.	
5. pl	ants usually produc	e colorful blooms	in the spring.		
6 The	of a quinoa plant	contains protein-	rich harvest		

Unit 8 Harvest

Harvest Date	Field # / Crop	Yield	Package Type	Package Weight	Rained On
06/29	1/Hay	0.5 ton/acre	Round Bale	0.6 tons	No
08/16	2/Wheat	30 bushels/acre	Bushel	600 bushels	Yes
10/02	3/Wheat	80 bushels /acre	Bushel	1600 bushels	No

Notes: Field #1 had the most abundant yield. Field #2 was more difficult. It matured later than expected. The farmers reaped several bushels too early. We also experienced an equipment problem during threshing. Some of the hay was not properly separated from the chaff. Field #3 was more successful. Inspectors discarded nearly a ton of unacceptable material from the stacks. Most came out of field #2.

1. Read	the harvest	summary	report.	Then,	mark 1	the fo	ollowing	statements	as	true
(T) or false (F)										

(1) 01 14150 (1)
1 _ The crops all have the same package type.
2 None of the crops were rained on.
3 _ Field #2 produced the smallest amount of wheat.
2. Read the sentence pair. Choose where the words best fit the blanks.
1 reap/mature
A the crops in six months.
B Some plants take longer to
2 chaff/harvest
A The annualis next month.
B This machine removes the unusable
3 tons/bales
A There were many more of hay this year.
B How many of hay this year of wheat were harvested?
3. Write a word that is similar in meaning to the underlined part.
1 This year's quantity of crops produced was twice last year's.
y d
2 Removing unusable parts from wheat makes it edible.
_ h s n_
3 Instead of gathering the crops in bales, we left them in organized piles.
_t a
4 When you go to the market, get 2 units of measurement equal to 9.3 Gallons of grain.
b_s
5 When you place an order, tell them what form of packaging
to use.
n t

Unit 9 Storage

STORAGE PROBLEM

Mr. Garcia,

We found a problem in bunker silo number 13. Mold is growing near the south opening. I suspect two causes. First, there was improper leveling. Too much moisture gathered at one end. Secondly, the silo has too much ventilation. It can't dry and cool the silage.

As a result, most of the silage is destroyed. The rest is in silage bags for now. Number 13 is closed until we remove the mold. Should we use one of the tower silos for storage in the meantime? We should also discuss how to fix number 13. I don't want this to happen again. Carta Thompson, Storage Manager

Carta Thompson, Storage Manager	
1. Read the email. Then, complete	te the summary of the email.
Workers discovered mold in 1	13. There were two causes: improper 2 and too destroyed. The rest is in 4 bags. The workers
2. Read the sentence pair. Choos	se where the words best fit the blanks.
1 cool/dry	
Athe grain or the heat will	ruin it.
B After the harvest,the wet	crops.
2 storage/mold	
A Nancy is worried about getting	in her silo.
B Jim sold some of the grain and	put the res in
3 silage bag / ventilation	
A There is a problem with the si	lo; use a
B Don's storage facilities have e	excellent
3. Match the words (1-4) with th	e definitions (A-D
1 leveling	A flattening the top of a pile
2 moisture	B a long trench used to store grain
3 tower silo	C wetness
4 bunker silo	D a tall storage facility

Unit 10 Feed and nutrients

ANIMAL NUTRITIONIST

Date posted: Jan. 25

Employer: Hillford Poultry Farm

Location: Lancaster, PA

Job Description: Prepare feed formula for fifteen varieties of chicken. Research and select low-cost ingredients with high nutrient content. Balance carbohydrate, fat, protein, vitamin, and mineral content in daily rations. Adjust feed formula as needed.

Job Qualifications: Masters Degree or higher in animal nutrition. Minimum of two years' experience, preferably on a poultry farm.

Salary: Based on experience, generous benefit package available.

Contact Information: Brian Walker (610) 555-5905 bwalker@hillford.com

- 1. Read the job posting. Then, mark the following statements as true (T) or false (F).
- 1 _ Hillford Farms has fifteen varieties of chicken.
- 2 _ The Hillford Farms daily ration includes fats.
- 3 _ Applicants need a degree in poultry management.

2. Match the words (1-5) with the definitions (A-E).

1 _ nutrient	A an organic substance found in food that is				
2 _ feed	essential for good health				
3 _ poultry	B food given to animals				
4 _ animal nutritionist	C a person who makes healthy food for				
5 _ vitamin	animals				
	D any organic or inorganic substance that				
	provides nourishment				
	E domesticated birds such as chickens and				
	turkeys				

	E domesticated birds such as chickens and
	turkeys
3. Write a word that is similar in me	eaning to the underlined part.
1 Henry increased the daily amount of food.	•
r n	
2 Inorganic substances like potassium are	
essential for good health.	
_ i r a	
Besides sleep and shelter, the process of no	ourishing an organism is the most important thing
at every organism needs.	
<u>u_r_t</u>	
4 Animals need a sufficient amount of	
Substances used to make energy in their diet	
C a t e	

Unit 11 Housing animals

PROPER ANIMAL HOUSING METHODS

by Ben Keller

Here are some tips for how to properly house animals. I will use <u>my hog barn</u> as an example.

The ideas apply to coops and pens as well. Animals with proper housing are in their comfort zones. They are healthier and more productive than animals with poor housing. First, make sure the enclosure matches the space requirements of the animal. You also need to know the animals' critical temperatures. Install automated heating and cooling to prevent heat stress and cold stress. Don't forget to have a good waste management system. Slotted floors provide a simple way to keep your animal's living space clean.

1. Read the page from a farming blog (T) or false (F).	. Then, mark the following statements as true				
1 The author raises poultry.					
2 Housing affects animals' productivity.					
= 2 1					
3 _ Slotted floors prevent heat stress.					
2. Read the sentence pair. Choose whe	re the words best fit the blanks.				
1 coop / cold stress					
A The chickens live in a separate					
B Install a heater to prevent					
2 heat stress / pen					
A During the summer, is a	a problem				
B Pigs do best if they are kept in their ov					
3 slotted floor / waste management					
	ontrol				
A is essential for odor con B A helps air to circulate.	muoi.				
B A neips an to circulate.					
2. Match the would (1.4) with the defi-	ations (A.D.)				
3. Match the words (1-4) with the defin					
1 barn	A conditions under which an animal is				
2 comfort zone	comfortable				
3 critical temperature	B a structure used to house animals				
4 space requirement	C the amount of space that an animal needs				

D a temperature that must be maintained

Unit 12 Breeding

TOM'S CATTLE BREEDING SERVICE

We have twenty Black Angus bulls available for breeding. Each bull has a detailed sire summary and complete pedigree. All are of high breeding value. Schedule an appointment to discuss your needs. We will help you with trait selection. We are 85% accurate in predicting heritability of most traits. Do you want a high rate of gain? Do you need strong musculature? Consider our bulls. You get a computer print out of the expected progeny difference (EPD). We can also provide information about each bull's progeny. Call us today!

1.	Read	the	notice.	Then.	mark	the	statements	as	true ((\mathbf{T})	or (false (F	١.
							500000	•••		ι –	, ~-		· –	,,

- 1 The company sells high quality bulls.
- 2 The company helps customers select desirable traits.

2 The company helps castomer	b beleet debilder	c traits.	
3 The computer print out detail	s the breeding va	alue of the steers.	
2. Fill in the blanks wi	th the correct w	ord and phrase	s from the word bank.
breeding value	progeny	rate of gain	heritability
			_
1 Healthy breeders usually pro-	duce healthy	<u> </u>	
2 Laura's breeding bulls have h	igh	•	
3 This year's calves have a low			
4 Each trait has a different degr			
_			
3. Match the words (1-	·5) with the defi	inition (A-E).	
1. breeding	,	A. A	A line of ancestors
2. pedigree		В. Т	The act of mating animals
3. Trait selection		C. A	A rating of the likelihood that a
4. EPD		t	rait will be inherited
5. sire summary		D. A	A list of predictions about the
			passage of traits
		-	The act of breeding to achieve
			specific traits

Unit 13 Slaughter and processing

JACOBSON'S BUTCHERING CO. LOCATED AT 143 FIRST STREET

	At	Jacobson's,	we	believe	in	humane	slaughter	and	safe	practices.	Only	trai	ined
profes	siona	als perform t	he sl	aughterir	ıg. V	Ve <mark>inspec</mark>	<mark>t</mark> all anima	ls for	disea	se before <mark>l</mark>	outcheri	<mark>ng</mark> .	Our
<mark>proces</mark>	sing	fees are as fo	ollov	vs:									

Kill fees: Beef: \$50/head. Hog: \$35/head. Lamb: \$25/head.	Cut fees (each cut is priced per pound): Beef: \$.35/pound. Hogs: \$.40/pound. Lamb: \$.35/pound.
Not only do we process meat, but we also treat hide our all-natural dog and cat foods made from offal.	es. No part of the animal is wasted. Ask about
1. Read the website. Then, choose the corn 1 Who slaughters the animals at Jacobson's?	rect answers.
A the animals' owners	C the company's owner
B professional butchers	D a meat inspector
2 What are Jacobson's cut fees based on?	•
A type of animal	C health of the animal
B weight of the animal	D time to process the animal
3 What is NOT a service offered by the company?	
A treating hides	C inspection of animals
B making pet food	D delivery of meat
2. Write a word that is similar in meaning 1 When the animals are big enough they are killed is gh	,
2 Most slaughterhouses charge extra fees to prepare	animals for eating or manufacturing
_r_c	difficulty for cutting of manufacturing.
3 Jonathon sent 50 animals to the slaughterhouses d	
4 Jackie learned how to use animals skins to make t	raditional clothing. i
5 Mr. Randal requested several different parts of me	
3. Fill in the blanks with the correct word	s and phrases from the word bank.
butchering kill fee human	
 Wendell's Slaughterhouse has a lower Slaughterhouses must use methods. is often used to make other products. 	
4 Each animal must be before slaughter.	
5 Carol thinks the cattle aren't ready for	yet.

Unit 14 Cultivating and planting equipment

USED FARMING EQUIPMENT FOR SALE

Used broadcast seeder for sale. Spread your seeds and fertilizer with ease. It's reliable and only one year old. If interested, call and ask for Jim Drury: 617-555-3958.

Buy a 1954 John Deere tractor. Great pulling power! Special price if you buy our used planter or transplanter.

617-555-2156. Ask for Linda.

Want perfect soil? Buy a rototiller or cultivator for less. Both machines are hardly used. Call Dennis Fisk at 627-555-3402.

Stone picker for sale. Save your back and buy today! Call J. Henry: 617-555-2948.

Need a seed drill or harrow for planting? We have two great machines waiting for you. Call Maya Till at 627-555-2395.

Preparing fields? Used chisel plow and cultipacker for sale. Call 627-555-9898 for more details.

- 1. Read the newspaper advertisements. Then, mark the following statements as true (T) or false (F).
- 1 _ The tractor has a special price with the purchase of other items.
- 2 _ The broadcast seeder is used to prepare fields.
- 3 _ The seed drill ad claims to protect the buyer's back.

2. Write a word that is similar in meaning to the underlined part.

1 That field has a lot of weeds; use the tool that breaks apart soil and weeds.
c _ I v
2 Eric is plowing the field with his new that breaks apart soil and smoothes the ground.
h a w
3 She wants a device attached to a tractor that goes deep in the earth to turn soil.
c h p
4 Paul got a new device pulled behind a tractor that lays down seeds in rows and covers them
a n
5 Plant the seedlings with the device pulled behind a tractor that places small plants in the soil
_ ran r

3. Match the words (1-6) with the definitions (A-F).

	3. Match the words (1-6) with the definiti	ons (A-F).
1 _	rototiller	A a device that spreads seeds and fertilizer
2 _	cultipacker	over a field
3 _	tractor	B a device pulled by a tractor that deposits
4 _	stone picker	seeds in the ground
5 _	broadcast seeder	C a machine that turns over soil
6 _	seed drill	D a device that separates stones and soil
		E a vehicle that pulls farm equipment
		F a machine that flattens soil

Unit 15 Harvest equipment

1 Customers can purchase grain from Finneman's.

2 Silage is made from plant remains.

FINNEMAN'S HARVESTING AND BALING

Finneman's offers a wide range of services. We provide custom harvesting and grain transportation, hay baling, and more!

Services for Grain Crops - We have the best combine harvesters and gleaners around! If you want your grain transported we can help. Chaser bins or gravity wagons transport your grain from field to storage. We have grain augers and conveyor belts for rent too! We make moving grain easy.

Silage - Our forage harvesters are perfect for clearing a field. Don't waste the plant remains after harvest. Rent a forage harvester and make silage.

Hay - We provide hay baling! We bring our balers to you. Bale wrappers are available upon request.

Don't wait for your hay to dry. Ask about our hay conditioners.

1.	. Read the	website.	Then,	mark the	following	statements	as true (T) or f	alse	(F)

3 _ Finneman's can condition wet hay	7.
2. Match the words (1-5) with the	ne definitions (A-E).
1 _ chaser bin	A A machine that harvests crops of grain
2 _ baler	B A harvest machine that does not use gas
3 gleaner	C A cart used to carry grain from a field to
4 combine harvester	storage
5 forage harvester	D A device that bundles hav

	B 11 de vice that bahares hay								
	ΕA	device	that	cuts	up	plants	for	use	as
	silag				-	-			
3. Write a word that is similar in meaning	g to th	e unde	rline	d par	t.				
1 Grain is easier to unload with an angled cart				-					
that is pulled behind a tractor.									
gy wo_									
2 Use the device that wraps bales to keep the"									
dry before the rain starts.									
_a r _p									
_ a r _ p 3 Don't forget the device that cuts hay so it will									
dry quickly.									
y cn r									
4 The moving strip of material that transports									
objects to other areas moves grain from here									
to the other side of the barn.									
Cv b									
5 The new device that moves grain from trucksand	carts	into stoi	rage l	oins n	nade	e the ha	irves	st mu	ıch
faster.									
r_{-} n r_{-} g_{-}									

Unit 16 Beef industry

IS RAISING GRASS-FED CATTLE THE WAY TO GO?

Grass-fed beef is in high demand. Mar. consumers say it tastes better than grain-fee beef. And they're willing to pay more for it. The down side of grass-fed beef is the cost Grasses have a lower feed conversion efficiency than com or soy. Cattle in pastures are also less likely to receive growth hormones. Thus, it takes longer for them to gain mass than their com or soy fed counterparts. Furthermore, they do not receive antibiotics and can get sick more easily. Finally, com-fed herds often produce higher grades of beef. However, there are methods to counteract those shortcomings. Some grass-fed cattle forage in pastures for the first few years of life. Before shipping them to a processing facility, ranchers send them to a feedlot for grain finishing. For approximately six months I they receive special feed rations to bring I them up to market weight rapidly.

- 1. Read the magazine article. Then, mark the following statements as true (T) or false (F).
- 1 Soy-fed cattle grow faster than grass-fed cattle.
- 2 _ Grass-fed herds produce higher grade beef.
- 3 Grass-fed cattle do not eat in feedlots.

growth hormones

beef

2. Match the words (1-8) with the definiti	ons (A-H).
1 _ rancher	A a selected amount of food given to an
2 _ grass-fed	animal
3 _ grade	B a place where animals are butchered
4 _ cattle	C cows and bulls
5 _ feed ration	D a rating of the quality of beef
6 _ processing facility	E a measurement of how animals convert
7 _ grain finishing	feed into mass
8 _ feed conversion efficiency	F primarily eating grass from a pasture
	G a farmer who raises livestock
	H feeding cattle grain to raise weight before
	slaughter
	1 1 0 1 11 1

antibiotics

herd

3. Fill in the blanks with the correct words and phrases from the word bank.

1	The cattle in the are bigger than those in the pasture.
2	is one of the most popular sources of food for humans.
3	Grass-fed cattle take longer to achieve .
4	Most cattle receive to keep them free of disease.
5	help cattle grow more quickly.
6	Disease can spread very quick through a of cows

feedlot

market weight

Unit 17 Swine industry

EFFECTIVE USE OF SPACE IN SWINE FARMING

Many swine farms do not provide optimal, space arrangements (Turner 2009). We studied twenty sow farms to learn about the best space arrangements in use today. Below are the findings from our research. The space requirements are different depending on the type of farm, Nevertheless it appears important to provide more than the minimally required static space. Otherwise, hogs tend to be sicker and less productive. In farrow-to-finish farms, providing social space is advisable. When sows have adequate social space they produce healthier litters. In the case of farrow-to-nursery farms, providing social space does not add additional value. Therefore, we found that it is sufficient to provide adequate dynamic space

1. Read the page from an agricultural industry journal.

Then, mark the following statements as true (T) or false (F).

- 1 Providing minimal static space leads to healthier hogs.
- 2 Social space is recommended in farrow-to-finish farms.
- 3 Farrow-to-nursery farms only need dynamic space.

2. Match the words (1-6) with the definitions (A-F).

1 _ hog	A a group of baby pigs
2 _ sow farm	B a farm that raises female pigs
3 litter	C enough space for an animal to move
4 _ dynamic space	D a farm that raises pigs to market weight
5 farrow-to-finish farm	E a pig that has achieved market weight
6 farrow-to-nursery farm	F a farm that raises pigs until they are
	weaned

3. Write a word that is similar in meaning to the underlined part.

1 The female pig just had another litter.

2 Larger pens provide space that allows animals to interact with one another.
_ oc s c _
3 The amount of space required to contain an animal's body is not enough; the pig needs room to
move.
stpe
4 Raising pigs and related animals is difficult.
_ W

Unit 18 Poulty industry

CLUCK FARMS

Welcome to Cluck Farms. We are a primary breeder of twenty-seven varieties of commercial chickens. We provide hens and roosters to over four hundred operations nationwide. Depending on your needs, we can provide you with chickens ranging from one-week old chicks to one-year-old pullets. In addition to breeding, we operate a small production facility. Our layers produce only the best eggs. All of our broilers and roasters are raised in a free-range manner. We are available to consult with poultry operations in neighboring states. With sixty years' experience, we can advise you on intensive farming methods, free-range techniques, and effective litter removal. Call us today to take a tour of our hatcheries.

 Read tl 	he page from	a website. Th	en, choose	the corr	ect ansv	vers.			
1 What is the p	ourpose of the	website?							
A to describe	a business		C	C to compare breeding methods					
B to explain p	roduct prices		D	to give a	advice or	n chicken fari	ning		
2 Which type of	of chicken pro	duces eggs?							
A pullets			C	layers					
B roasters			D	roosters					
3 Which service	e is NOT pro	vided by the fa	ırm?						
A consultation	for nearby fa	arms	C	product	ion of po	oultry produc	ts		
B breeding of	commercial c	chickens	D	removal	of farm	litter			
2. Match	the	words ((1-7) v	vith	the	definitions	(A-G).		
1 rooster	the	words (. ,	a baby o		acimitions	(11 0).		
2 layer				-		that produce	es eggs		
3 hen					chicken	-	25 655		
4 broiler				a male o		L			
5 chick						oos are hatel	ned		
6 hatchery				E a facility where eggs are hatched F a medium-sized chicken sold for food					
7 intensive fa	armino			G a method for raising chicken indoors					
	iiiiiiig		O	a men	100 101	raising cine	acii ilidools		
		ith the correct							
free-range	roasters	primary	breede	r lı	tter	pullets	poultry		
1chick			ined chicke	ns					
2is th									
3 Robert's Farm			ocal farms.						
4 Chicken is a									
5cos		-	ig.						
6 Those	will be lay	ers soon							

Unit 19 Dairy industry

FAMILY DAIRY FARM

Colchester Family

Dairy Farm is located in Bernville, Ohio. Founded in 1882 by Roger Colchester, our farm is still run by the Colchester family. Our facilities - Our main barn houses a milk herd of 75 Holsteins. In addition, we have a nursery barn where bull calves and heifers are raised until they are sold. The milking machines in our milking parlor are the best available. They can send fifty gallons

a minute from udders to storage through our milk pipeline What we do - Our farm produces milk and milk products, none of which contain rBST. We sell four varieties of milk and make our own cheese and butter. Our commitment to quality - Every gallon of milk produced at our farm is pasteurized and homogenized. We test each batch for quality. If it doesn't pass our rigorous testing, we don't sell it.

- 1. Read the page from a website. Then, mark the following statements as true (T) or false
- 1 The dairy receives calves from a breeder.
- 2 The dairy produces more than milk.
- 3 The milk at the farm is tested for rBST

2. Fill in the blanks with the correct words and phrases from the word bank.

	homogenized	udders	milk pipeline	rBST	Holstein			
1 N	1 Most people prefer milk that is							
2 N	Machines pull milk from	om cows'						
3_	makes cows p	roduce more mil	k.					
4]	The carries m	ilk to storage.						
5	cows are kno	own as great milk	producers.					
		C	•					
	3. Match the words	s(1-6) with the d	efinitions (A-F)					
1	dairy	` ,	A a female	cow that has no	ot given birth			
2	heifer		B food made	de from milk				
3	calf		C an area v	where cows are	milked			
4	milking parlor		D to heat n	nilk in order to	kill bacteria			
	pasteurize		E a group o	of cows that pro	duce milk			
6	milking herd		F a baby co	OW				

Unit 20 Sheep industry

CLOUDHAVEN SHEEP FARM

Galton Industries is proud to introduce our newest venture, the Cloudhaven Sheep Farm. Building on our success with the Cloudhaven Cattle Yard, we have created a lambing facility that offers the same quality production. Cloudhaven oversees three flocks, combining for a total of approximately 3,000 head of sheep. We supply both feeder lambs and market slaughter lambs. Thanks to our accelerated lambing process, we can meet the demands of any customer, large or small. Our ewes produce one to two lambs per year. During each lambing period, we keep half of the lambs for finishing. The others are distributed to meet seasonal market demands.

This is all made possible by our system of confinement lamb production. Our experienced managers ensure the safety and quality of lambs inside our facility. Not only does this process increase quality, but it also helps keep our costs down. Unlike range production operations, confinement production means we have zero losses to predation. And we pass those savings on to our customers. So, come see us at Cloudhaven Sheep Farm for quality sheep at low prices.

1. Read the business announcement. Then,	, choose the correct answers.
1 What is the passage mostly about?	
A a takeover of a failing sheep operation	C the success of a cattle operation
B the advantages of range production	D the operations of a new facility
2 What was the company's previous business	venture?
A a cattle yard	C a free range poultry operation
B a slaughterhouse	D a meat processing facility
3 What is the advantage of confinement lamb prod	duction?
A production of more lambs	C accelerated lambing process
B no predation losses	D better market prices
2. Match the words (1-6) with the definitio	ns (A-F).
1 _ Flock	A a large group of domesticated sheep
2_Ewe	B a method for raising sheep indoors
3 _ Distribute	C a lamb that is sold to be slaughtered
4 _ Feeder lamb	D a lamb that is sold for finishing
5 _ Market slaughter lamb	E to supply goods to shops to be sold
6 _ Confinement lamb production	F a female sheep
3. Read the sentence pair. Choose where the	ne words best fit the blanks.
1 seasonal market / accelerated lambing	
A The farm produced more lambs for the _	÷
B Weak ewes cannot participate in	
2 lambing period / finishing	
A Lambs are put up for sale after	
B Ewes need extra care during the	·

Unit 21 Equine industry

SHADY STABLES

Shady Stables is East City's premier equestrian facility. Our ten acre property features two bams with eight stalls in each. Every stall is connected to a private run. We board stallions and mares for a small monthly fee that includes feed and access to all our riding areas as well as local riding trails. We also have private boarding areas for broodmares and foals. In addition to our boarding services, we have on-site veterinarian to meet all of your horse's needs including preventative disease control. Routine care includes foot and dental exams and comprehensive vaccination schedule.

Shady Stables also offers professional training services. Our trainers can assist you with everything from halter breaking and sacking out to bridling and saddling. Each trainer has a minimum of five years experience training horses. They also offer private riding lessons for inexperienced riders. Call Shady Stables today to learn more about our facilities and staff.

1. Read the brochure from a horse stable. Then, mark the following statements as true (T) or false (F).

- 1 The monthly boarding fee includes food.
- 2 The facility is near a veterinary clinic.
- 3 Trainers have years of experience teaching new riders.

2. Match the words (1-7) with the definitions (A-G).

1 _ bridling	A training a horse to be led by a halter
2 foal	B a baby horse
3 _ stallion	C a female horse
4 _ saddling	D training a horse to accept a saddle
5 _ mare	E training a horse to accept a bit
6 _ halter breaking	F a male horse
7 _ preventative disease control	G activities that prevent illnesses

3. Write a word that is similar in meaning to the underlined part.
The female horse used for breeding is pregnant again.
or a
2 Training a horse to not fear objects that humans place on it can be dangerous
The Veterinarian created a planned administration of
vaccinations.
cctch
4 Clean the small partitions inside a barn.
_t

Unit 22 Apiculture

SWEET REWARDS BEEKEEPER SUPPLY

Whether you're considering beekeeping as a hobby or a career, Sweet Rewards Beekeeper Supplies has everything you need. We carry a wide selection of beehive frames to house your colony. From top-bar hives to traditional skeps, we have hives for any type of apiary.

In addition to hive frames, we also carry a complete line of beekeeper tools. We have several

sizes of smokers, as well as liquid smoke and cold smoke aerosols. When it's time to harvest honey, take advantage of our new line of honey jars. We even serve beekeepers who prefer traditional methods. For these customers, we carry honeycomb presses.

Finally, no beekeeping operation is complete without protective gear. We have beesuits in a variety of sizes and designs including square veils, round veils, and shoulder veils.

Stop in today and see what makes Sweet Rewards the first choice for professional beekeepers.

1. Read the webpage. Then, choose	the correct answers.
1 Which product do bees live in?	
A apiary	C beehive frame
B beesuit	D honeycomb press
2 What is true of the honeycomb press?	
A It protects beekeepers.	C It is preferred by professionals.
B It supports large colonies.	D It is used by traditional beekeepers.
3 What does the store NOT sell?	-
A bee colonies	C harvest equipment
B smoking tools	D protective clothing
2. Read the sentence pair. Choose w	where the words best fit the blanks.
1 apiary / beesuit	
A This produces a lot of hone.	no alvin
B A good protects beekeeper	S SKIII.
2 liquid smoke / colony	
	ive
A Wendy's lives in a top-bar h B is a good option for people	who dislike the smell of smoke
2 is a good option for people	
3 veils / skeps	
A There are many types of protective _	
B Traditional beekeepers use	
·	
3. Match the words (1-6) with the d	efinitions (A-F).
1 _ smoker	A a structure that houses a bee colony
2 honey	B a structure with a bar that bees build their
3 _ honeycomb	colony on
4 top-bar hive	C a pressurized container that releases
5 beehive frame	smoke
6 cold smoke aerosol	D a structure with six-sided cells
_	E a sweet substance that bees make
	F a device that burns materials to produce

smoke

Unit 23 Classification and Composition

SOIL ANALYSIS REPORT

We took soil samples from three proposed farm locations. See to chart below for details.

The samples indicate substantially different soils at each location. The table below summarizes the texture, composition, and classificatic the samples. No highly-organic soils were found. Both sites 01 and 03 offer desirable soil. However, in both cases we recommend adding peat. That will make them more suitable for agriculture. The soil at Site 02 is not suitable for irrigated agriculture.

Sample	Grain texture	Composition			Unified Soil Classification System
		<mark>% sand</mark>	<mark>% silt</mark>	% clay	Symbol/ Group
					Name
Site 01	Fine-grained	5	15	80	CL/clay
Site 02	Coarse- grained	75	21	4	SM/silty sand
Site 03	Medium- grained	2	68	32	MH/ elastic silt

- 1. Read the soil analysis report. Then, mark the following statements as true (T) or false (F).
- 1 No site had the same grain texture.
- 2 Sites 01 and 03 had highly-organic soil.
- 3 Adding peat to Site 02 will make it suitable for irrigated farming.

2. Read the sentence pair. Choose where the words best fit the blanks.

1	highly-organic / course-grained	
	A soil is best suited for farming.	
	B Growing crops in soil is difficu	ılt.
2	peat / clay	
	A makes soil more fertile.	
	B is much more dense than sand.	
3	unified soil classification system / composition	
	A Each soil type has a different	
	B Soil types are organized by the	
	3. Match the words (1-6) with the definition	as (A-F).
1	sand	A soil deposited by water
2	silt	B consisting of tiny particles
3	_ grain	C a small piece of material
4	classification	D group something belongs to
5	fine-grained	E how something feels
6	texture	F soil made of rock and minerals

FARMERS STRUGGLE AGAINST SALT AND ACID

WAYNESBORO - Martin Harrison has been a farmer for half a century. Recently, his crops have grown poorly. The culprit: rising salinity and acidity along with decreasing sodicity. is located in Brown County, an area known for its rich farmland with little risk for salinity problems. Historically, the primary salinity of the soils there was low. That started to change two years ago when drought arrived. Farmers began irrigating their fields with well water. That water has high potassium, chloride, and sulfur content. At first there were no problems. However, mineral deposits built up. This resulted in the increased secondary salinity of the soil.

It also made the soil acidic and alkaline.

Harrison started to notice problems last summer. His tomato plants died. The soil had become toxic to several other vegetables as well. He now increases the soil's pH value by adding

lime. But that is just a temporary solution to the problems caused by irrigation. Until the drought

ends, crop yields will suffer.

1.	Read the news	paper article.	Then.	choose the	correct answe	rs.
	IXCHA LIIC IIC III	puper articles		CHOOSE CHE	COLLECT MILDING	

1. Read the newspaper article. Then, choose	the correct answers.
1 What changed the soil's primary salinity?	
A saline deposits in the soil	C minerals from well water
B acids from rainwater	D toxins from fertilizer
2 How does the farmer improve his soil?	
A He plants fewer crops.	C He irrigates in the summer.
B He adds lime to the soil.	D He increases the salinit
3 When can you infer the crops will grow properly	again?
A when farmers can stop irrigating	C when sulfur content in the soil increases
B when the pH value of the soil is lowered	D when farmers purify the well water
2. Match the words (1-5) with the definition	s (A-E).
1 acidity	A the amount of sodium in the soil
2 alkaline	B the amount of acid in the soil
3 sodicity	C a substance added to improve soil
4 primary salinity	D salt that is in soil from natural processes
5 lime	E having a pH value greater than 7.0
3. Write a word that is similar in meaning to	o the underlined part.
1 Pants won't grow in soil with too much alkaline n	netal.
i_m	
i_m 2 Some substances are harmful to plants.	
tc	
3 Irrigation leads to an increase in the salt level cha	nged by land use and management.
cons_l	
4 Chemicals can alter soil's measure of acidity or al	kalinity.
_H _a	
5 The soil has high metallic element levels.	
_ul	
6 What is the concentration of salt of the soil?	
s t_	

Unit 25 The nitrogen cycle

Nitrogen is a crucial nutrient for growing plants. Without the nitrogen cycle, which restores nutrient-poor soil, plants could not survive. During this cycle, nitrogen takes on many forms. It starts in the atmosphere as nitrogen gas. In this form plants cannot absorb it. That changes

after fixation, the next phase of the nitrogen cycle. During fixation, bact turn nitrogen into ammonia. In the next phase, mineralization, decomposers in the soil turn ammonia into nitrites nitrates-forms of nitrogen that plants can use. Finally, during denitrification-bacteria reduce nitrates back into nitrogen gas.

Of course, the nitrogen cycle can also have negative effects. For example, it produces chemicals like nitrous oxide When this substance leaks into bodies of water, eutrophication occurs. This build-up of algae can ruin a water supply Unfortunately, commercial farming produces a great deal of such chemicals. A challenge facing modern farmers is to reduce their contribution to this harmful aspect of the nitrogen cycle.

1.	Read	the textbook passage.	Then,	mark the fo	llowing	statements	as true (T) or	false
	(F).								

- 1 Plants cannot survive without nitrogen.
- 2 _ During fixation, decomposers turn ammonia into nitrogen.
- 3 Nitrous oxide can cause algae build up in water supplies.

2. Read the sentence pair. Choose where the words best fit the blanks.

ammoni	a / nitrous oxide
A	is a component in many fertilizers.
В	is a toxic product of the nitrogen cycle.
eutroph 2	ication / dentrification
A	restores nitrogen in the air.
В	occurred in the pond due to fertilizer runoff.

3. Match the words (1-6) with the definitions (A-F).

1 fixation	A not having the right amount of minerals to
2 decomposer	be healthy
3 _ nitrite	B substance that bacteria create from
4 _ nutrient-poor	ammonia
5 _ nitrate	C the processes by which nitrogen is
6 _ nitrogen cycle	changed into chemical forms
	D the process of converting nitrogen into
	ammonia

E substance that bacteria create from nitrites F organism that turns dead animals or plants into chemical nutrients

A GUIDE TO SOIL CONSERVATION

Without healthy soil, farmers can't produce healthy crops. But soil faces many threats, including nutrient depletion and erosion. Fortunately, several methods of soil conservation can turn unhealthy soil into a plant paradise.

One method, crop rotation, solves nutrient depletion. Cover crops, or green manure, are rotated with other crops. This process increases the amount of nitrogen in the soil and reverses land degradation.

In addition to addressing nutrient-depletion, farmers also combat erosion. Several practices can prevent erosion. Planting windbreaks stops topsoil loss from wind. Perimeter runoff control prevents erosion from water. For example, grassways slow water and direct it away from fields.

Contour-farming techniques, such as keyline design, also prevent water from eroding soil. In one method, farmers plow rows perpendicular to hills. The water slows as it reaches the rows, which results in less soil loss.

1. Read the magazine article. Then, choose	the correct answers.
1 What is the main purpose of the article?	
A to show the benefits of soil additives	C to recommend soil conservation products
B to describe soil conservation methods	D to explain the financial costs of soil
	damage
2 Which is NOT a suggestion made in the article	
A planting cover crops	C applying manure fertilizer
B using keyline design	D having perimeter runoff control
3 Which would be the best solution for nutrient	
depletion?	
A crop rotation	C windbreaks
B soil conservation	D contour farming
2. Match the words (1-8) with the definition	is (A-H).
1 _ nutrient depletion	B process where nutrients are taken from
2 contour farming	soil
3 cover crops	C grassy areas that slow water flow
4 green manure	D the practice of maintaining soil
5 soil conservation	E plants that add nutrients to soil and
6 grassways	prevent
7 _ keyline design	from washing away
8 perimeter runoff control	F a method of plowing to prevent erosion
	G the use of plants near a field's borders to
	prevent erosion
	H design that maximizes water resources
A a name for cover crops that add nitrogen	
3. Write a word that is similar in meani	ing to the underlined part.
1 The rows are at right angles to the fence. P _ pe	<u>.</u>
2 The farmer needs a way to stop wind or water rer	
3 Tree barriers shelter fields from the wind n _	
4 Growing different crops at different times helps k	keep soil healthy.C r t
5 The forest experienced negative effects on the lar	

Unit 27 Preparing, seeding, and Planting

Although different crops demand different preparation, some practices apply to almost any

crop. And what you do before planting is just as important as what you do after. Preparing the topsoil is always key. Test it in late summer to determine if amendments like lime, sulfur, or phosphorous are needed to adjust acidity. If the soil is nutrient-deficient, add fertilizer.

Likewise, most fields require treatment with an herbicide. Waiting two weeks to plant after using some herbicides is recommended.

Once the soil temperature is right, planting can begin. The seeding rate is determined by the ideal seeds per pound and seeds per square foot. Be sure to calculate the appropriate plant density. A miscalculation will result in low emergence.

The actual planting of seeds will vary by crop. Broadcast seeding may work for some seeds, while seed drills work better for small grains such as wheat or oats.

1. Read the section of The Farmer's Guide. Then, mark the following statements as true (T) or false (F).

- 1 Amendments add nutrients to soil.
- 2 Herbicides should be applied weeks after planting.
- 3 Broadcast seeding is effective with oats.

2. Match the words (1-5) with the definitions (A-E).

- 1 _ seeds per pound
 2 _ broadcast seeding
 3 _ plant density
 4 amendment
 A a method of scattering seeds
 B amount of seeds planted per square foot
 C the number of seeds in a pound of seeds
 D the number of plants in a certain area
- 5 seeds per square foot E a substance added to improve soil

3. Fill in the blanks with the correct words and phrases from the word bank.

soil temperature	topsoil	fertilizer herbicide	emergence	seeding
rate				
1 The farmer used		to improve the soil		

2 The weeds died after Mary used _____.
3 It is still too cold to plant the seeds; the _____ is 25 degrees
4 During droughts, the ____ can be blown away by strong winds.
5 The farmer was pleased to have 90 percent _____ of the newly planted crops.
6 This field's _____ is 10 pounds per acre.

Unit 28 Climate and weather

SEEDS UNLIMITED

Pobla	ıno Pep	per \$3.	19/pac	k
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Plant in: full sun / soil temperature: 68-90 degrees Fahrenheit

Description: Poblanos are flavorful peppers that are perfect for spicing sauces. They grow in warm areas with moderate humidity. Check your hardiness zone to make sure Poblanos grow in your region. Plant seeds about twelve weeks before last frost. A local long- range forecast will help you determine when to plant. Poblanos need some water, but just to keep the soil slightly damp. Do not over-water. Harvest after 14 to 16 weeks.

Famosa Cabbage \$3.79/pack

Plant in: partial shade / soil temperature: 59-64.4 degrees Fahrenheit

Description: The Famosa Cabbage is a crispy vegetable that grows in cool climates. Famosas need

lots of water, so areas with high precipitation are ideal for growing. Use plenty of mulch to maintain healthy soil moisture. These cabbages need only partial sun. Plant six weeks before last frost. Harvest in late autumn for best results.

1. Read the seed catalog. Then, mark the following statements as true (T) or false (F).

- 1 _ Poblano peppers grow best in areas with high precipitation.
- 2 Both types of seeds require full sun.
- 3 The cabbage should be harvested in the fall

2. Fill in the blanks with the correct words an phrases from the word bank.

precipitation	last frost	temperature	hardiness zones
1 If thef	alls too low, the plants w	ill die.	
2 Don't plant any s	eeds until after the		
3 If there is enough	, you won't have	to irrigate.	
4 Different plants r	nay have different		
-		_	
3. Match the	words (1-5) with the def	initions (A-E).	
1 _ climate		A weather condition	ns in a particular area
2 humidity		B the amount of wa	ter in the soil
3 mulch		C the amount of wa	ter in the air
4 long-range fore	cast	D material that is	spread on the ground to
5 soil moisture		protect plants	-
_		E a prediction of fu	ture weather conditions

Unit 29 Pricing

Dear Mr. Kowalski,

Our office analyzed your business practices as you requested. We have a few suggestions to improve your pricing strategy.

We believe that it is time to consider pricing for competition. There are several new produce sellers in your area. Some are offering lower prices for the same vegetables that you sell. For example, you sell spinach for \$5.49 per pound. Most other sellers are offering spinach for less than \$5.00 per pound. They attract customers who want large quantities by offering pricing for value. We suggest moderate price decreases that maintain pricing for profit. As long as your prices remain higher than your cost of production, your business will make money.

We also think it is time for you to expand beyond direct marketing. Profits will remain limited if you only sell at the local farmer's market. We recommend exploring a strategy of indirect marketing through larger area supermarkets. Our office will continue to analyze supply and demand in your area. We will provide updated recommendations based on the most current trends.

Sincerely,

Nancy Curry, Professional Consultant

1. Read the business letter. Then, choo 1 What is the purpose of the letter?	ose the correct answers.
A to market a new product	C to bill a customer for services
B to offer new services to a client	D to explain the results of an analysis
2 How do the client's prices compare to others?	
A They are higher than other's prices.	D They change more often than other's
B They are the same as other's prices	prices
C They are lower than other's prices.	
3 What suggestion does Ms. Curry make?	
A lowering production costs	C marketing to grocery stores in the area
B studying local supply and demand	D increasing prices by five percent
2. Read the sentence pair. Choose whe	ere the words best fit the blanks.
1 marketing / indirect marketing	
A In, customers buy from farmer	S
A In, customers buy from farmer B involves farmers selling crops	to stores where customers shop
2 supply and demand / cost of production	
A Prices must make up for the	
B Prices change according to	
3 pricing strategy / produce	
A Sell this before it spoils.	
B Change your to make a bigger	profit.
3. Match the words (1-4) with the defin	
1 _ pricing	A setting a price that is less than other
2 pricing for profit	sellers
3 pricing for competition	B setting a lower price for large quantities
4 pricing for value	C the process of establishing costs for items
	D setting a price that exceeds the cost of
	production

Unit 30 Government intervention

GOVERNMENT PROMISES HELP FOR WHEAT GROWERS

Government officials introduced a plan this week to enhance wheat production. Spokesperson Harriet Greene responded to reporters' questions on Friday. She said the government is committed to improving economic conditions in wheat-growing regions.

Greene said the plan supports the small farmer: that the world's food and fiber industry relies on. The plan does have critics. But Greene responded that improving the wheat industry improves economies everywhere. She stated that the industry's decline negatively affects people around the world.

The plan is to decrease supply by employing a strategy of adjusting production. Leaving some wheat fields fallow should prevent excessive surpluses and wasted resources. Hopefully, this will increase market demand. Additionally, the government will implement various forms of price support. This includes establishing price floors raising quotas and reducing tariffs on export. Finally, the government is setting up a department to address foreign trade enhancement. The department will identify ways to increase wheat trade worldwide.

1. Read the newspaper article. Then, mark the following statements as true (T) or false (F).

- 1 Some people do not support the plan
- 2 The plan calls for planting all available wheat fields.
- 3 The government intends to lower taxes on exported wheat.

2. Match the words (1-6) with the definitions (A-F).

1 decline	A the desirability of a product
2 quota	B the process of becoming less or worse
3 price floor	C a limit on the amount of something
4 market demand	D a legal limit on how Iowa price can be
5 adjusting production	E the act of improving international trade
6 foreign trade enhanceme-	F changing the amount of a product that is m

3. Write a word that is similar in meaning to the underlined part.

o. Write a word that is similar in meaning to the andernied part.
1 Most agriculture focuses on the production of food and other products.
f n_ ib in
2 Taxes on imports and exports can help trade.
t_r
3 Leave that field unplanted this season.
II
4 The extra supply of wheat lowered prices.
_ u _ p
5 Methods of maintaining high prices ensures that crop prices don't collapse
cepp

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