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Name	Date	Hour

Unit Word Search

Student Materials

Pencil

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1)	Ir	ec	tı	O	n	C

Fill in the blank with the corr	ect ter	m from the word bank. Find each word within the word search.
	1.	The top level of the taxonomic system is the
	2.	One of the lowest levels of classification
	3.	Latin word that means pink
	4.	A plant that complete its entire life cycle within one growing season is $a(n)$
	5.	This type of plant needs two growing seasons to complete its life cycle.
	6.	Plants that slow their growth during the cold winter months are
	7.	Plants that keep their leaves and green color throughout the year are
	8.	A has two seed leaves.
	9.	A has only one seed leaf.
	10.	Green pigment in the leaves is called
	11.	During photosynthesis is released into the atmosphere.
	12.	A plant's structure consists mostly of
	13.	"Photo" means
	14.	Plants obtain from air, water, and minerals.
	15.	Peat moss, sphagnum moss, and pine bark are examples of media
	16.	Volcanic rock that has been crushed and heated



ACTIVITY 4.1 page 2

 17. The uppermost layer of soil is called
 18. A soil that has approximately equal amounts of sand, silt, and clay
 19. Humidity and wind are conditions that affect soil formation
 20. Small rock particles in the soil
 21. Another term for organic matter in the soil
 22. The largest soil particle
 23. Soil particle that feels powdery to the touch
 24. The smallest soil particle

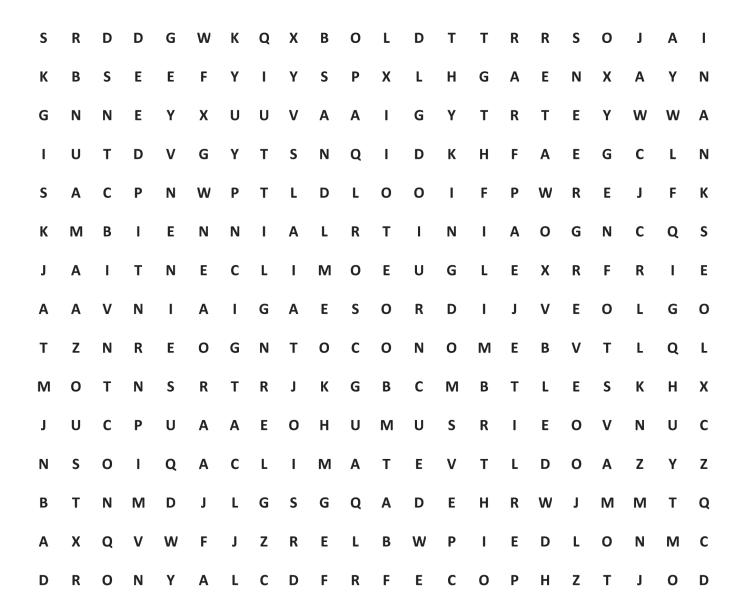
Word Bank

annual biennial chlorophyll clay climate dicot

dormant evergreens genus humus kingdom light

loam minerals monocot nutrients organic oxygen

perlite rosea sand silt topsoil water





Name	Date	Hour

Career Research

Student Materials

Pencil and paper or computer/printer Resources to research careers

Examples:

Online sites

America's Career Infonet

http://www.acinet.org/acinet/

Books

Magazines

Personal interviews

Directions

Choose a career associated with plant and soil science that you are interested in finding out more about. There are many careers associated with plant and soil science such as florist, greenhouse grower, landscape architect, forester, agronomist, civil engineer, geologist, soil conservationist, and water quality specialist. If you need assistance in choosing a career, ask your instructor.

Write a paper over the career that is at least two pages in length. Answer questions about the career in your paper such as:

- What is the title of the career? Why did you choose that specific career?
- How does the career relate to plant and soil science?
- · What types of businesses or organizations hire for this career?
- What type of degree or training is required for the career?
- What is the salary range or the average salary?
- · What are some specific skills required for this career?
- What are some specific duties/responsibilities of this career?
- · What are the working conditions and hours?





Name	Date	Hour

What's In a Name?

Student Materials

Pencil

Resources to research Latin names

Examples:

Reference books

Online sites

Directions

Write	in	the	botanical	name	or	Latin	name	οf	the	fol	lowing	nl	ants
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 1.	American Elm
 2.	Bermudagrass
 3.	Blackeyed Susan
 4.	Blackjack Oak
 5.	Blue Wild Indigo
 6.	Catclaw Sensitivebriar
 7.	Eastern Cottonwood
 8.	Eastern Redcedar
 9.	Indian Blanket
 10.	Johnsongrass
 11.	Musk Thistle
 12.	Plains Tickseed
 13.	Poison Ivy
 14.	Purple Coneflower

15. Redbud





Name	Date	Hour

Weekly Eating

Student Materials

Pencil

Directions

Plants are directly or indirectly a source of all food for humans. Think about what you have eaten in the last week. Write 8 complete sentences about different foods you have eaten that come from plants.

	Example: Last week I ate grilled chicken, and chicken feed is made from various plants.
1.	
2.	
3.	
4.	
5.	
6	
0.	
7.	
8.	



Activity 4.5

Name	Date	Hour
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Plant Perspiration

Student Materials

large plastic bags twist ties rocks graduated cylinder

Procedure

- 1. Using trees, cover a small branch with a plastic bag (use several different types of plants). The branch should have several leaves on it.
- 2. Add a small rock to the plastic bag to allow water collection to settle in the bottom of the bag.
- 3. Secure the plastic bag with a twist tie.
- 4. Record the beginning time of the experiment.
- 5. Allow the bag to remain on the branch for 24 hours.
- 6. Check for visible results after 24 hours. If water is not observed after that period of time, allow the bag to stay for an additional 24 hours.
- 7. Once water is visible in the bag, uncover the branch and measure the amount of water in a graduated cylinder.
- 8. Record results, record time of water collection, and calculate the amount of water produced during transpiration every hour.
- 9. Compare the amount of water obtained from the different plants.
- 10. Create a graph displaying the results of the different plants.

Plant Name	Water Amount 24 hours	Average Amount Per Hour



Activity 4.6

Name	Date	Hour

Double Puzzle

Student Materials

Pencil			
Directions			
Unscramble each of the clue words. Take the letters that appear in boxes and unscramble them for the final message.			
RNGEMOIANTI			
GEOYXN			
TAWRE			
NULGITHS			
CYHROHLOLLP			
MAETRUEPETR			
TNTISRENU			
LNTAP TAEHLH			
WRHOGT			
CAILETM			
Final Word	S		



Name	Date	Hour
TAUTIC		110u1

State Averages

Student Materials

Almanacs Internet access

Directions

In this lesson you learned about the requirements necessary for plants to grow and develop. Sunlight and water were two of the main requirements. Search the Internet to find the average monthly temperatures and precipitation in your state. Complete the chart below.

	Average Temperature	Average Precipitation
January		
February		
March		
April		
May		
June		
July		
August		
September		
October		
November		
December		

1.	How do temperature and precipitation correlate?	
_		
2.	How do they affect farmers?	



Name	Date	Hour
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What's the Texture?

Student Materials

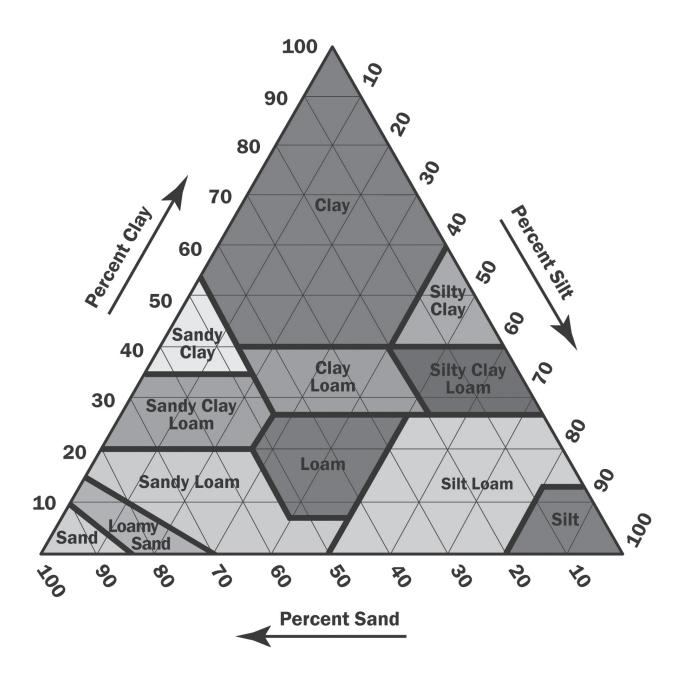
Pencil Soil textural triangle

Directions

Use the soil textural triangle to determine the soil textural class of the soils.

1.	30% sand, 40% silt, 30% clay	
2.	50% sand, 10% silt, 40% clay	
3.	60% sand, 20% silt, 20% clay	
	40% sand, 10% silt, 50% clay	
	20% sand, 70% silt, 10% clay	
	90% sand, 5 % silt, 5% clay	
0.	90% salid, 3 % silt, 3% clay	
7.	50% clay, 50% silt	
8.	40% sand, 20% silt, 40% clay	
9.	65% sand, 10% silt, 25% clay	
10.	22% sand, 48% silt, 30% clay	
11.	What percentage range of clay	would need to be present for a sandy loam soil?
		would need to be present for a loamy sand soil?
13.	If a soil has a low percentage of	f sand and silt, what problems could there be?

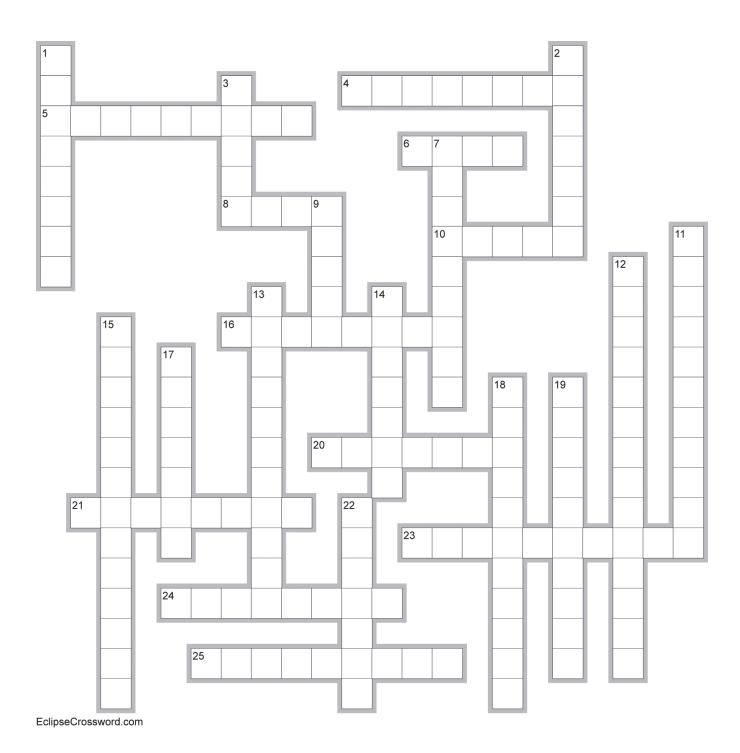






Name_ _____ Date _____ Hour ___

Unit Review Crossword



Across

- 4. A plant that needs two growing seasons to complete its life cycle is a _____.
- 5. Plants that lose their leaves are called ____.
- 6. Optimum soil for plant growth
- 8. Soil particle that feels gritty and allows water to drain quickly
- 10. Soil used as a building material
- 16. Has high water and nutrient retention capabilities
- 20. Many ornamental flowers are ____.
- 21. About half of an average soil
- 23. Plants that keep their leaves throughout the year
- 24. Often used by nurseries
- 25. Plants that grow season after season

Down

- 1. Plants receive this nutrient from water
- 2. All plants belong in the kingdom .
- 3. Small spaces between soil particles
- 7. All of these that live on or in the soil affect its formation.
- 9. Plant that has two seed leaves
- 11. Method of growing plants without soil
- 12. Original matter from which soil particles are formed
- 13. Heated mica compound
- 14. Some plants lose their leaves during the ____ period.
- 15. Process in which plants lose water via openings in the skin of the leaf
- 17. One of the lowest levels of classification that gives the plant its individual scientific name
- 18. Process in which the plant uses oxygen to convert the stored sugar into usable energy
- 19. Variation of the earth's surface
- 22. Latin term meaning yellow
- 23. Soil used as a building material

