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Roots, Stems, and Leaves

Textbook pages 68-72

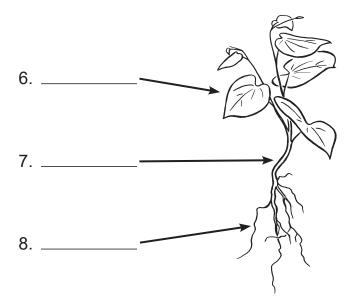


Read 4.1 "Roots, Stems, and Leaves" on pages 68-72 of the textbook.



Exploring the Lesson

- Write the letter of each vocabulary word beside its definition.
 - 1. ____ the process of a plant using sunlight to make food
 - 2. ____ a gas that animals and humans breathe out and plants use to make food
 - 3. ____ a young plant grown from seed
 - 4. ____ a sugar that plants make
 - 5. ____ a gas that animals and humans breathe in and plants give off
- **B** Write leaves, roots, or stem to label the parts of the plant.



- a. carbon dioxide
- b. glucose
- c. oxygen
- d. photosynthesis
- e. seedling





Write the name of each plant part beside what it does. Use some words twice.

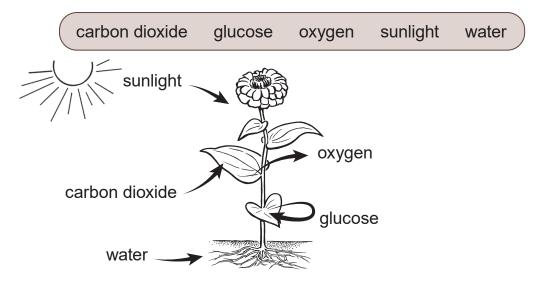
	roots stem	leaves
9.		make food for the plant
10.		absorb water and nutrients from the soil
11.		has little tubes to carry water and nutrients
12.		anchor the plant in the ground
13.		supports the leaves, flowers, and fruit

- Number the steps in order.
 - 14. How does water reach the leaves of a plant?
 - a. ____ Rainwater soaks into the soil.
 - b. ____ Tubes in the stem carry water to the leaves.
 - c. ____ Roots carry water to the stem.
 - d. ____ Roots soak up water from the soil.
- **E** Circle the letters of the answers to each question.
 - 15. What are two ways plants are different from animals and people?
 - a. Plants produce their own food.
 - b. Plants need food, water, and air to live.
 - c. Plants need carbon dioxide to live.
 - d. Plants need energy to grow.
 - 16. What three things do plants need to produce glucose during photosynthesis?
 - a. sunlight
 - b. water
 - c. carbon dioxide
 - d. oxygen





Write words from the box to complete each sentence about photosynthesis.



- 17. The plant receives energy from ______ to perform photosynthesis.
- 18. The plant takes in _____ from the soil.
- 19. The plant takes in _____ from the air.
- 20. The plant produces _____ for its food.
- 21. The plant puts _____ back into the air.
- G Circle *T* if the statement is *true* or *F* if it is *false*.
 - 22. **T** F Plants make glucose in their roots.
 - 23. **T F** Plants store extra glucose in their roots and stems.
 - 24. **T F** People can get energy from the glucose in plants.
- **M** Write the answer to each question.
 - 25. How do plants get carbon dioxide for photosynthesis? _____
- \triangle 26. Why does photosynthesis stop at night? ______

Flowers and Pollination



Textbook pages 73-78 Lesson

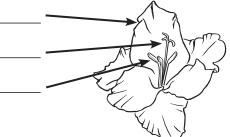


Read 4.2 "Flowers and Pollination" on pages 73-78 of the textbook.



Exploring the Lesson

- Write the letter of each vocabulary word beside its description.
 - 1. ____ the yellow powder from a flower
 - 2. ____ to move pollen from the stamen to the pistil
 - 3. ____ the part of a flower that makes pollen
 - 4. ____ the part in the center of a flower that makes seeds
- a. pistil
- b. pollen
- c. pollinate
- d. stamen
- Write pistil, petal, or stamen to label the parts of the flower.



- C Underline the bold word that completes each sentence about pollination.
 - 6. The **pistils**, **stamens** produce and hold pollen.
 - 7. A bird or insect brushes against the **pollen**, **petals** on the stamens as it drinks nectar.
 - 8. The bird or insect carries the pollen to the **pistil**, **stamen** of another flower.
 - 9. The pollen moves to the base of the **petal**, **pistil** to pollinate the flower.
 - 10. The process of pollination allows the flower to produce fruits and seeds, stems.

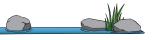




Circle the letter(s)	of the answer(s)	to each question.
-	01 1110 11101101(0)	10 000011 9000011

D	Circle the letter(s) of the answer(s	s) to each question.								
	11. Why do you think God made the top of the pistil flat and sticky?									
	a. to catch insectsb. for nectar to stick toc. for pollen to stick to easilyd. to attract bats with its sweet smell									
	12. What are four types of pollinator									
	a. insects	d. bats								
	b. birds	e. sunshine								
	c. deer	f. wind								
	13. What are three ways flowers are designed to attract pollinators?									
	a. bad odors									
	b. large leaves									
	d. special marks	c. bright petals								
	p									
•	Write the answer to the question									
	14. Why do trees, grasses, and grainfields need the wind for pollination?									
ß	Write the letter of each pollinator	beside what it often pollinates. Use one letter								
J	twice.	beside what it often pointates. Ose one letter								
	15 grass and trees									
	16 smelly rafflesia flower	a. bat								
	·	b. honeybee								
	17 bananas and mangoes	c. hummingbird								
	18 fruit and vegetable crops	d. fly								
	19 long tube-shaped flowers	e. wind								
	20 pale-colored flowers that bloom at night									





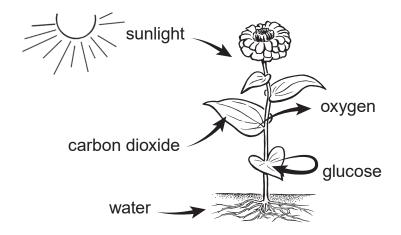


We Remember

- **G** Write the vocabulary word that fits the definition.
 - 21. _____ a young plant grown from seed
- H Write leaves, roots, or stem beside each description.
 - 22. ____ make food for the plant
 - 23. _____ has little tubes to carry water and nutrients; supports the leaves, flowers, and fruit
 - 24. _____ absorb water and nutrients from the soil and anchor the plant in the ground



Underline the bold word(s) that complete(s) each sentence.



- 25. The plant receives energy from oxygen, sunlight.
- 26. The roots take in **glucose**, water from the soil.
- 27. The plant takes **carbon dioxide**, **oxygen** out of the air and puts **carbon dioxide**, **oxygen** back into the air.
- 28. The plant makes a sugar called **glucose**, **carbon dioxide** that helps it grow.
- 29. This diagram shows the process of photosynthesis, metamorphosis.





Textbook pages 79-84 Lesson



Read 4.3 "Fruits and Seeds" on pages 79-84 of the textbook.



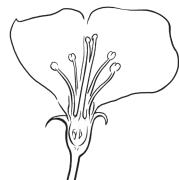
Exploring the Lesson

A Write each vocabulary word beside its definition	A	Write each	vocabulary	word bes	ide its	definition
--	---	------------	------------	----------	---------	------------

- 1. _____ the part of a plant that contains seeds
- 2. _____ not actively growing
- 3. _____ to begin to grow by sending out a sprout
- 4. _____ the soft juicy part inside a fruit

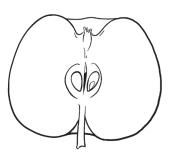
Complete the exercise.

5. Write fruit, pistil, stamens, or seeds to show the steps of how fruits and seeds form.









a. Pollen from

is brushed onto the pistil.

b. The lower part of c. Inside the

the _____ begins to swell.

new seeds begin to form.

d. The fruit protects

___ until they are ripe.





C	Wr	ite the answer to each question.
Δ	6.	What are three fruits?
	7.	What three things do all seeds need to germinate?
	8.	What nourishes a new plant just after it germinates and before it begins photosynthesis?
	9.	Why is it good for plants and trees to have their seeds spread?

- **D** Underline the bold word that completes each sentence.
 - 10. A seed will germinate best in dry, moist soil.
 - 11. The soil needs to be **cool**, **warm** so a seed can germinate.
 - 12. A seed can get **energy**, **oxygen** from the air in the soil.
 - 13. Maple, elm, and pine seeds have wings and are spread by water, wind.
 - 14. The seeds of pussy willows and coconuts can be spread by water, wind.
 - 15. Burdock and cocklebur seeds have **barbs**, **wings** that stick to animal fur or people's clothing.



We Remember

3	Lis	t four different types	of pollinators.
	16.		





Write a word from the box to complete each sentence. Use one word twice.

	nectar pis	stil petals	pollen	pollinate	stamens	
17.	The colorful _		of	a flower mag	y attract birds	or insects.
18.	A bird or insec	ct may also co	me to a fl	ower to drin	k	·
19.	As the bird or			· ·	•	e thin
20.	The powdery your insect.	yellow		sticks	to the body o	f the bird or
21.	When the bird				•	tick to the
22.	The	m	oves to the	ne base of th	ne pistil.	
23.	The pollen tran			er to		$_{\scriptscriptstyle \perp}$ it so the flower

G Complete the exercise.

- 24. Write petal, pistil, or stamen to label the parts of the flower.
 - a. ______
 b. ____
 c. ____