



Name

Period

Date

SECTION
21.1

PLANT CELLS AND TISSUES

Study Guide

KEY CONCEPT

Plants have specialized cells and tissue systems.

VOCABULARY

parenchyma cell	dermal tissue	xylem
collenchyma cell	ground tissue	phloem
sclerenchyma cell	vascular tissue	

MAIN IDEA: Plant tissues are made of three basic cell types.

Write the functions of each of the three basic cell types, and sketch or describe their appearance in the chart below.

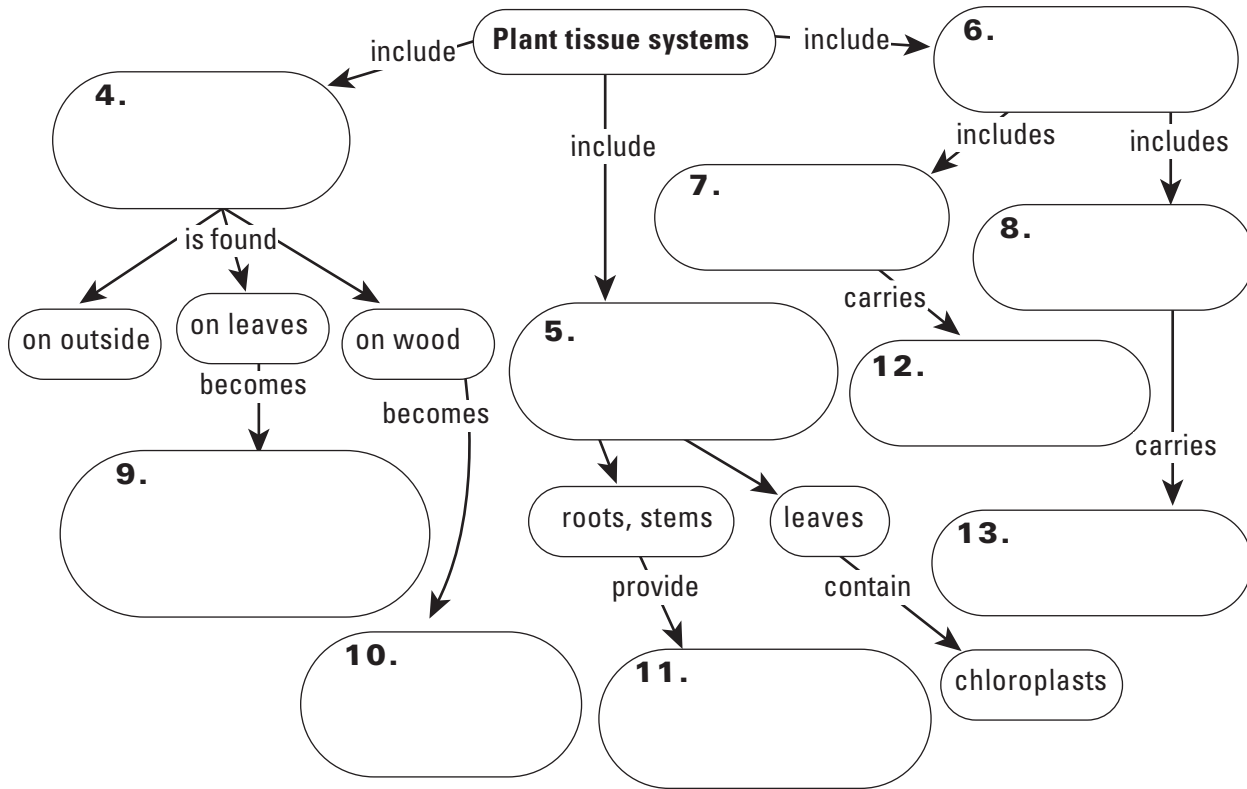
Cell Type	Function	Sketch or Description
1. Parenchyma cell		
2. Collenchyma cell		
3. Sclerenchyma cell		

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Section 21.1 STUDY GUIDE CONTINUED

MAIN IDEA: Plant organs are made of three tissue systems.

Fill in the concept map below with supporting details about the three tissue systems of plants.



Vocabulary Check

parenchyma cell	sclerenchyma cell	ground tissue	xylem
collenchyma cell	dermal tissue	vascular tissue	phloem

- _____ 14. Outer covering of a plant
- _____ 15. Includes xylem and phloem
- _____ 16. Tissue that makes up the majority of a plant
- _____ 17. Supporting cell type that makes up celery strands
- _____ 18. Vascular tissue that carries sugars
- _____ 19. Strongest cell type that makes up fruit pits
- _____ 20. Most common cell type that can help plants heal from injury
- _____ 21. Vascular tissue that carries water and dissolved minerals