Science Test – Chapter 12 Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Score: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Reading %: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Matching: Match each term with the correct definition

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| --- | --- |
| 1. \_\_\_\_ bark
 | 1. A region on a stem where a leaf is or was attached
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| 1. \_\_\_\_ blade
 | 1. A plant tissue that conducts dissolved food in a plant downwards
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| 1. \_\_\_\_ epidermis
 | 1. Harder and nonflexible type of plant stem
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| 1. \_\_\_\_ fibrous root system
 | 1. A type of root system having one or a few main roots that are thicker and longer than the other roots of the plant
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| 1. \_\_\_\_ herbaceous stem
 | 1. The part of a leaf between the node and the blade
 |
| 1. \_\_\_\_ node
 | 1. A plant which has tissues that conduct water and other materials
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| 1. \_\_\_\_ petiole
 | 1. In animals a blood vessel that carries blood toward the heart; in plants, the vascular tissues in leaf blades
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| 1. \_\_\_\_ phloem
 | 1. The typically flat, green portion of a leaf
 |
| 1. \_\_\_\_ tap root system
 | 1. The plant tissue characterized by long, hollow cells that carry water
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| 1. \_\_\_\_ vein
 | 1. Water pressure inside a plant cell’s central vacuole; causes the stiffness of the plant cell
 |
| 1. \_\_\_\_ woody stem
 | 1. Softer, more flexible, and often green plant stems
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| 1. \_\_\_\_ xylem
 | 1. The outer covering of woody plant parts
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| 1. \_\_\_\_turgor pressure
 | 1. A plant which lacks tissues that conduct water and other materials
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| 1. \_\_\_\_ nonvascular plant
 | 1. A tissue that serves as a protective covering layer in plants and animals
 |
| 1. \_\_\_\_ vascular plant
 | 1. A type of root system having a cluster of roots that are about equal in size
 |

True or false: Determine whether each statement is true or false.

1. \_\_\_\_ Most plants have three major parts: roots, stems, and leaves.
2. \_\_\_\_ An oak tree would be an example of a woody stem.
3. \_\_\_\_ The flat part of a leaf is called the blade.
4. \_\_\_\_ The growth rings on a tree are called “biannual growth rings.”
5. \_\_\_\_ Wood is a collection of layers of xylem.
6. \_\_\_\_ Phloem cells are not completely hollow.
7. \_\_\_\_ The waxy substance that forms a protective covering on some leaves is called the cuticle.
8. \_\_\_\_ The leaves of a fern are called “fronds.”
9. \_\_\_\_ There are four major plant groups.
10. \_\_\_\_ A peach is an example of an angiosperm.

Multiple choice: Determine which option best answers each question.

1. \_\_\_\_ Which of the following is not a main part of a plant?
	1. Stem
	2. Leaves
	3. Bark
	4. Roots
2. \_\_\_\_ What is a young frond called?
	1. Rhizome
	2. Sphagnum
	3. Bryophyte
	4. Fiddlehead
3. \_\_\_\_ What structures conduct materials in leaves?
	1. Xylem
	2. Veins
	3. Arteries
	4. Cork
4. \_\_\_\_ What name is given to a region on a plant where a leaf is or was attached?
	1. Node
	2. Capsule
	3. Vascular bundle
	4. Epidermis

Short answer: Use complete sentences to answer each question.

1. What does xylem transport?

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1. What is the main difference between gymnosperms and angiosperms?

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1. Which is older, heartwood or sapwood?

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Extra Credit: What is the name of the tallest tree in the world? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_