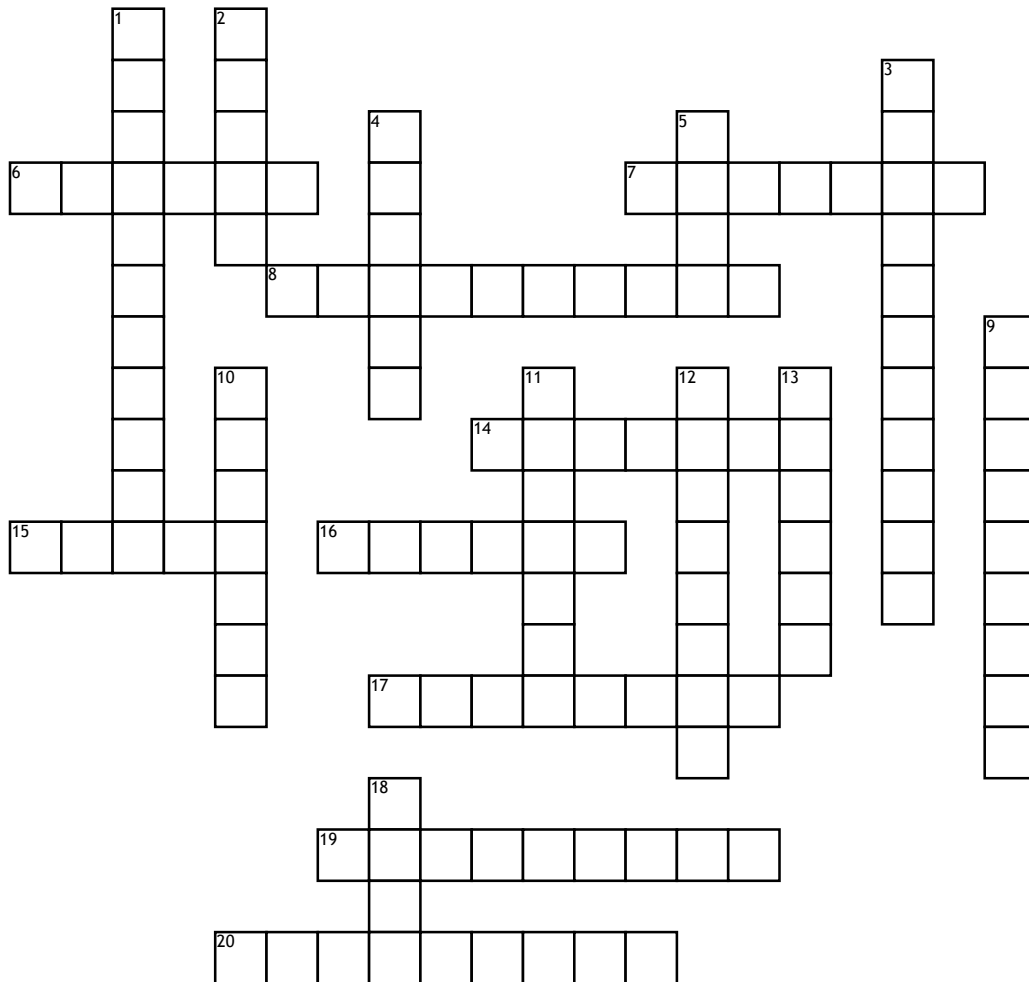


4 Structures of Plants



Across

6. an outer layer of tissue immediately below the epidermis of a stem or root
 7. the stalk that joins a leaf to a stem
 8. a green pigment, present in all green plants
 14. a straight tapering root growing vertically downward and forming the center from which subsidiary rootlets spring.
 15. each of the segments of the corolla of a flower
 16. The part of the pistil where pollen germinates.
 17. the action or process of adhering to a surface or object

Word Bank

- | | | | | |
|-----------|-------------|------------|-----------|-------------|
| cell | stamen | petiole | cortex | fibrousroot |
| epidermis | chloroplast | nucleus | petal | adhesion |
| woodystem | palmate | chorophyll | internode | phloem |
| cohesion | node | taproot | stigma | xylem |

19. produces wood as its structural tissue.

20. a part of a plant stem between two of the nodes from which leaves emerge.

Down

1. formed by thin, moderately branching roots growing from the stem
 2. vascular tissue in plants that conducts water and dissolved nutrients upward
 3. a plastid that contains chlorophyll and in which photosynthesis takes place.
 4. the vascular tissue in plants that conducts sugars and other metabolic products downward from the leaves
 5. the smallest structural and functional unit of an organism
 9. the outer layer of tissue in a plant
 10. a dense organelle present in most eukaryotic cells
 11. a compound leaf that is divided into leaflets whose stems emanate from a single central point
 12. the sticking together of particles of the same substance
 13. the male fertilizing organ of a flower
 18. part of a plant stem from which one or more leaves emerge