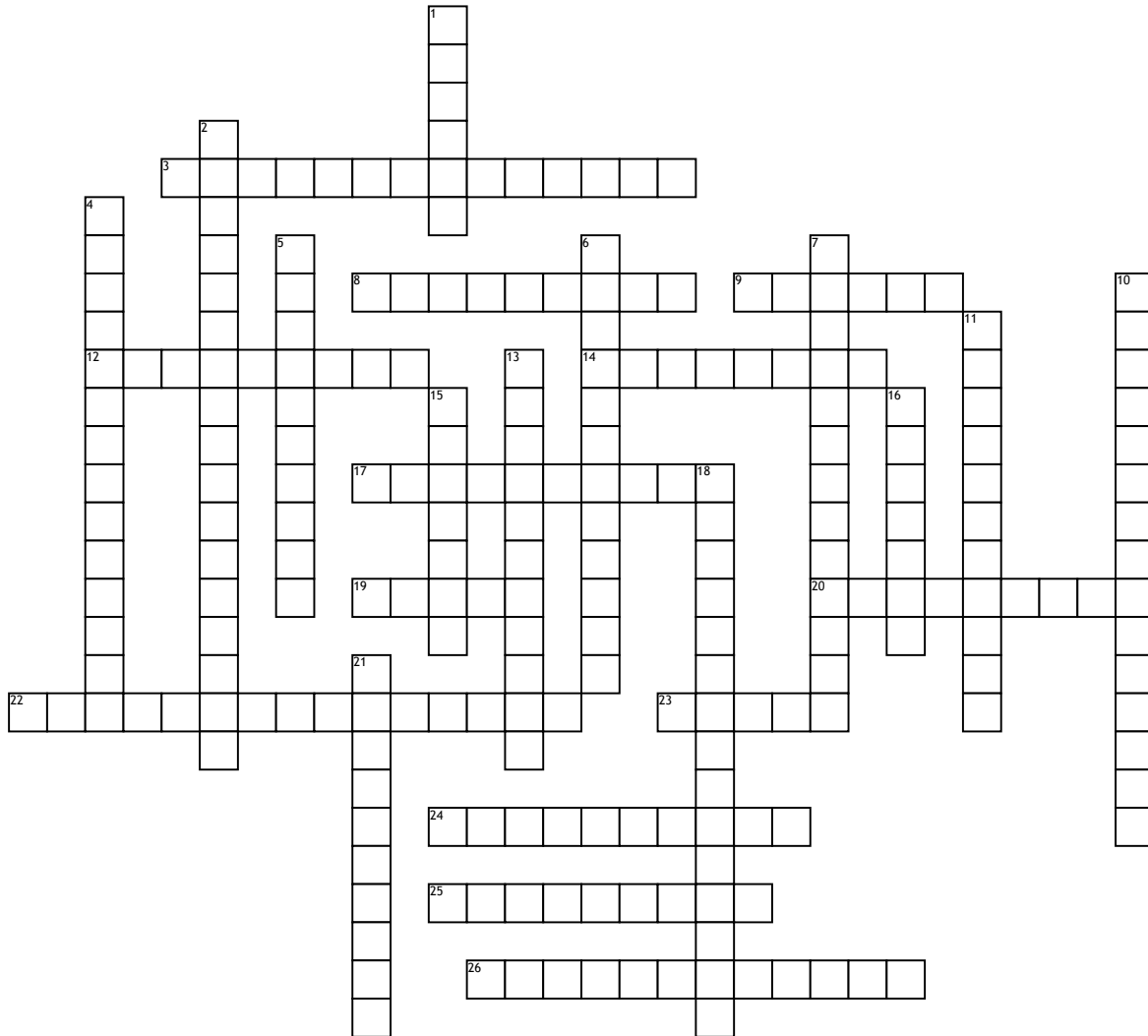


Name: \_\_\_\_\_

Date: \_\_\_\_\_

# Chapter 22



## Across

3. plant response that causes movement that's not dependent on the direction of the stimulus  
 8. layers of cells directly next to the endodermis toward the center of the root  
 9. layer below the epidermal layer  
 12. the layer of cells that makes up the outer covering on a plant is dermal tissue  
 14. simple compound composed of two carbon and 4 hydrogen atoms  
 17. produced in rapidly dividing cells  
 19. water carrying vascular tissue composed of specialized cells  
 20. long cylindrical cells with pitted ends

22. thin cylinder of meristematic tissue, that can run the entire length of roots and stems

23. one of the first plant hormones to be identified

24. inner boundary of the cortex is a layer of cells

25. regions of rapidly dividing cells

26. causes cell elongation, stimulates cell division and affects cell growth

## Down

1. main food carrying tissue

2. contain chloroplasts and make up this tissue

4. tubular cells that are stacked end to end forming strands of xylem

5. the two cells that form a stoma

6. plant cells that lack cytoplasm and other living components when they mature

7. process where water evaporates from the inside of the leaf to the outside of the stomata

10. below the palisade mesophyll

11. plant cells that are often elongated & occur in long strands that provide support for surrounding cells

13. produces cells that develop tough cell walls

15. a stalk that attracts a blade to a stem

16. tip of the root is covered by

18. contains cytoplasm but lacks a nucleus and ribosomes when it matures

21. most flexible, thin walled cells found throughout a plant