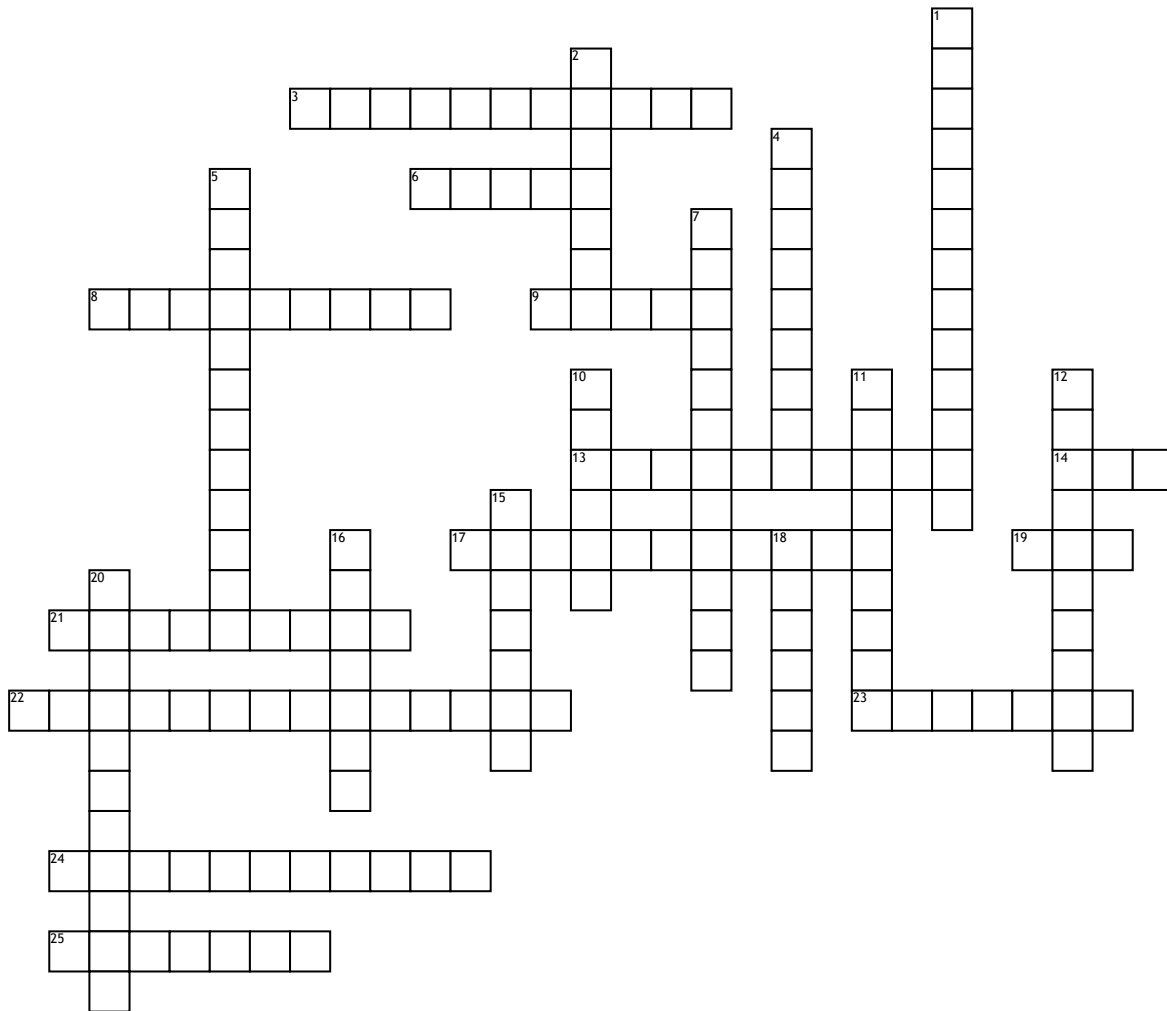


Photosynthesis & Respiration



Across

3. Process that releases energy by breaking down glucose in the presence of oxygen.

6. Part of the vascular bundle that carries water from the roots to the leaves

8. Organisms that can make their own food

9. Reactant of photosynthesis that plants get through their roots in the ground

13. Type of fermentation that occurs when muscle cells cannot keep up with the increased demand of oxygen causing fatigue and burning

14. Energy rich molecule produced during respiration for cells to do work

17. Organisms that cannot make their own food

19. Energy poor molecule that can be used to store extra energy in the cell

21. Filled with chlorophyll and found in the chloroplast they are the site of photosynthesis

22. Conversion of light energy to chemical energy in the form of glucose

23. Waxy covering on the top and bottom of a leaf that helps retain water

24. Organelle found only in plant cells which is the site of photosynthesis

25. Product of photosynthesis that stores the light energy from the Sun

Down

1. Reactant of photosynthesis that plants take in through their stomata

2. Pores on the underside of leaf through which carbon dioxide enters and oxygen exits

4. Respiration that does not require oxygen and produces very little ATP

5. Organelle in which aerobic cellular respiration takes place.

7. Anaerobic respiration in which cells produce very limited amounts of ATP due to the lack of oxygen.

10. Part of the vascular bundle that carries glucose from the leaves to the rest of the plant.

11. Type of fermentation in which yeasts convert pyruvic acid to ethyl alcohol

12. Serve to regulate the opening and closing of the stomata

15. Respiration that occurs in the mitochondria and requires Oxygen

16. Series of folds and loops in mitochondria that increase surface area for respiration.

18. Waste product of photosynthesis needed by animals.

20. Green Pigment found in thylakoids necessary for photosynthesis to occur