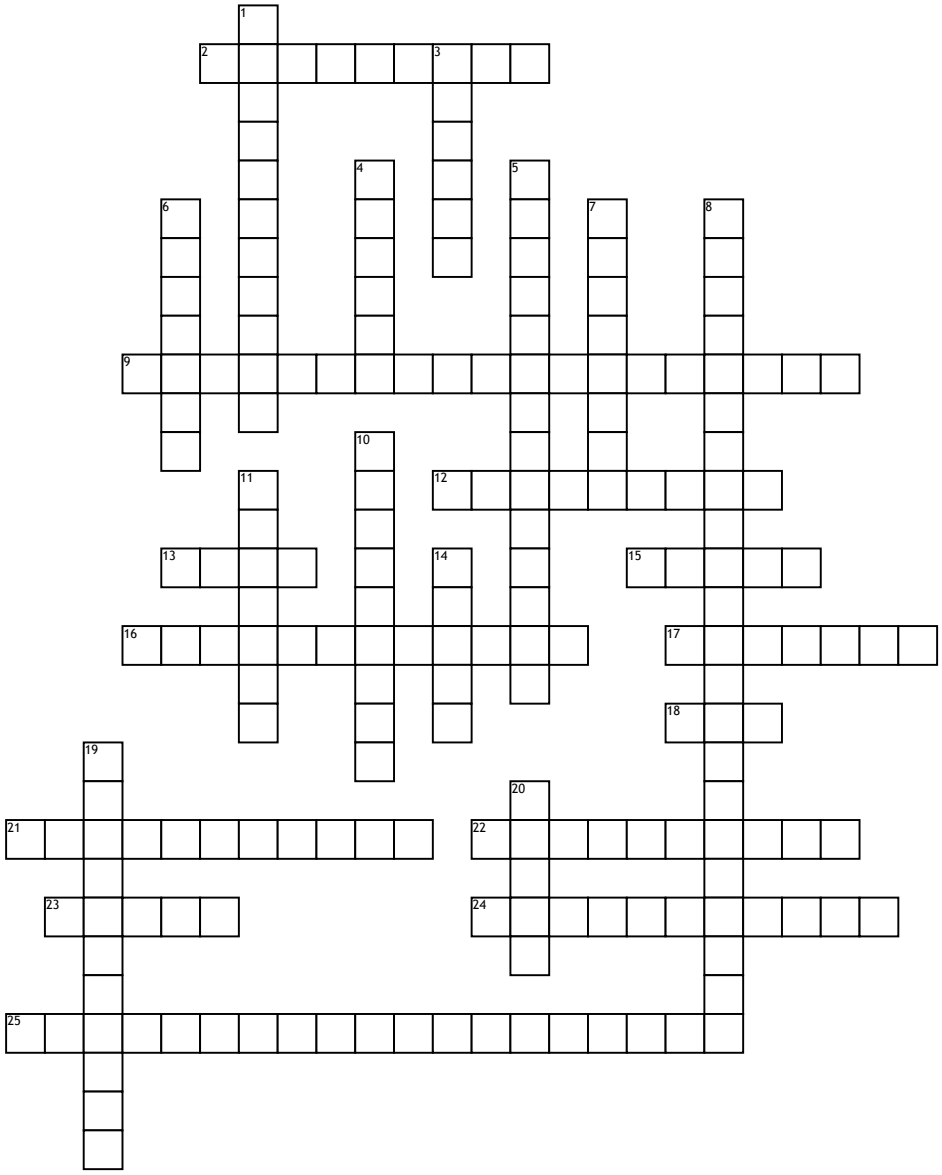
Name: _____ Date: _____

Photosynthesis and Cellular Respiration



Across

2. What are the individual disc-like structures in the chloroplast called?

9. If I ran for 1 hour, what process would have given me most of my energy?

12. An organism that can make their own food using sunlight is called this.

13. Chlorophyll absorbs red and _____ light.

15. In an ATP molecule, energy is stored in the phosphate _____.

16. Cellular respiration happens in this organelle.

17. This cellular respiration process requires oxygen to happen.

18. Aerobic is better than anaerobic because it makes more _____.(hint: it's a molecule

21. The process of photosynthesis that happens in the stroma and does NOT need sunlight is called this.

22. What type of fermentation causes the burning sensation in our muscles?

23. Stacks of thylakoids are called this.

24. Organisms that cannot make their own food using sunlight are called this. (hint: we are an example of this)

25. Both plants and animals do this process. Breaking down glucose to make energy.

Down

1. What is the pigment that reflects green light?

3. Cellular respiration: glucose + _____ --> carbon dioxide + water + ATP

4. The empty space inside the chloroplast is called this, it is also where the Calvin Cycle takes place. (hint: not grana or thylakoid)

5. What is the process that autotrophs go through to absorb light energy to make their own food?

6. This molecule is responsible for absorbing light energy.

7. What is the main source of energy for all living things?

8. Inside the thylakoid is where this reaction happens. (hint: it NEEDS sunlight)

10. This process does NOT require oxygen.

11. The two reactants of cellular respiration are oxygen and _____.

14. NADP+ charges up in the thylakoid to make this fully charged molecule.

19. Photosynthesis takes place in what organelle?

20. The three reactants of photosynthesis are carbon dioxide, sunlight, and _____.