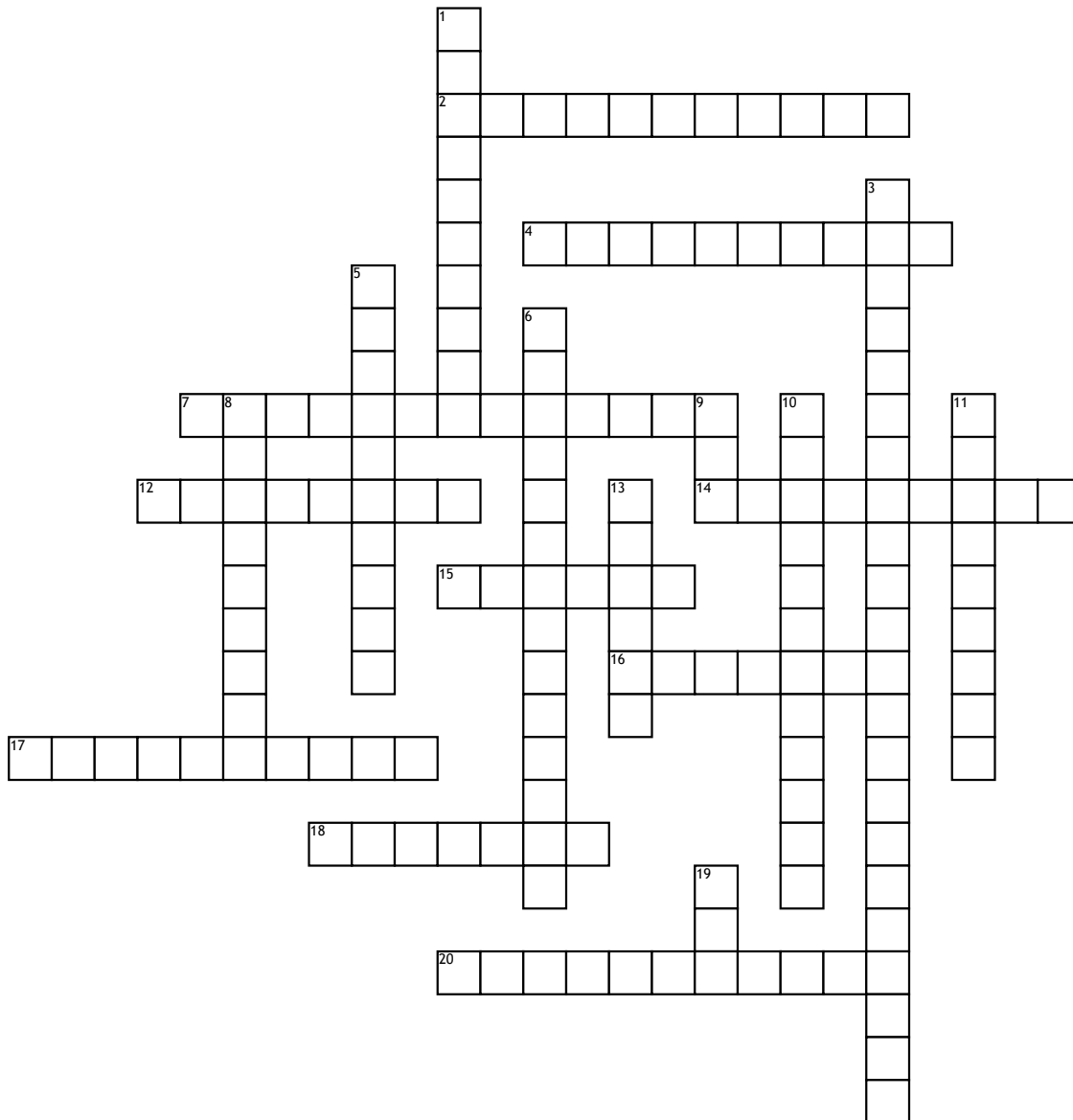


Photosynthesis and Cellular Respiration



Across

2. Pigment in plants that captures light energy
 4. First stage of all cellular respiration that breaks glucose into pyruvate
 7. A waste product of respiration that can be reused for photosynthesis or breathed out by animals
 12. Type of organism that always uses anaerobic respiration due to its lack of mitochondria
 14. Jelly-like fluid in the cell where glycolysis and fermentation occur
 15. Waste product of photosynthesis that is a crucial compound for animals to breathe in during respiration
 16. 6-Carbon sugar produced in photosynthesis, then used in respiration to make energy

17. Second stage of cellular respiration in which pyruvic acid is broken down into carbon dioxide and energy

18. Respiration that releases ATP by breaking down glucose in the presence of oxygen

20. Organelle that captures sunlight and turns it into sugar

Down

1. Type of fermentation that can cause muscle cells to "burn" due to lack of oxygen

3. First step of photosynthesis that uses sunlight and water to produce oxygen, NADPH, and ATP

5. A name for organisms that can produce their own food

6. Process in which light, water, and carbon dioxide are transformed into monosaccharides

8. Type of fermentation used by yeast that causes bread to rise

9. The final step of cellular respiration that produces 32-34 ATP

10. Powerhouse of the cell

11. Respiration that creates ATP for an organism when oxygen is not available

13. The purpose of cellular respiration is to create this for a cell to function and grow

19. Most important energy molecule in a cell