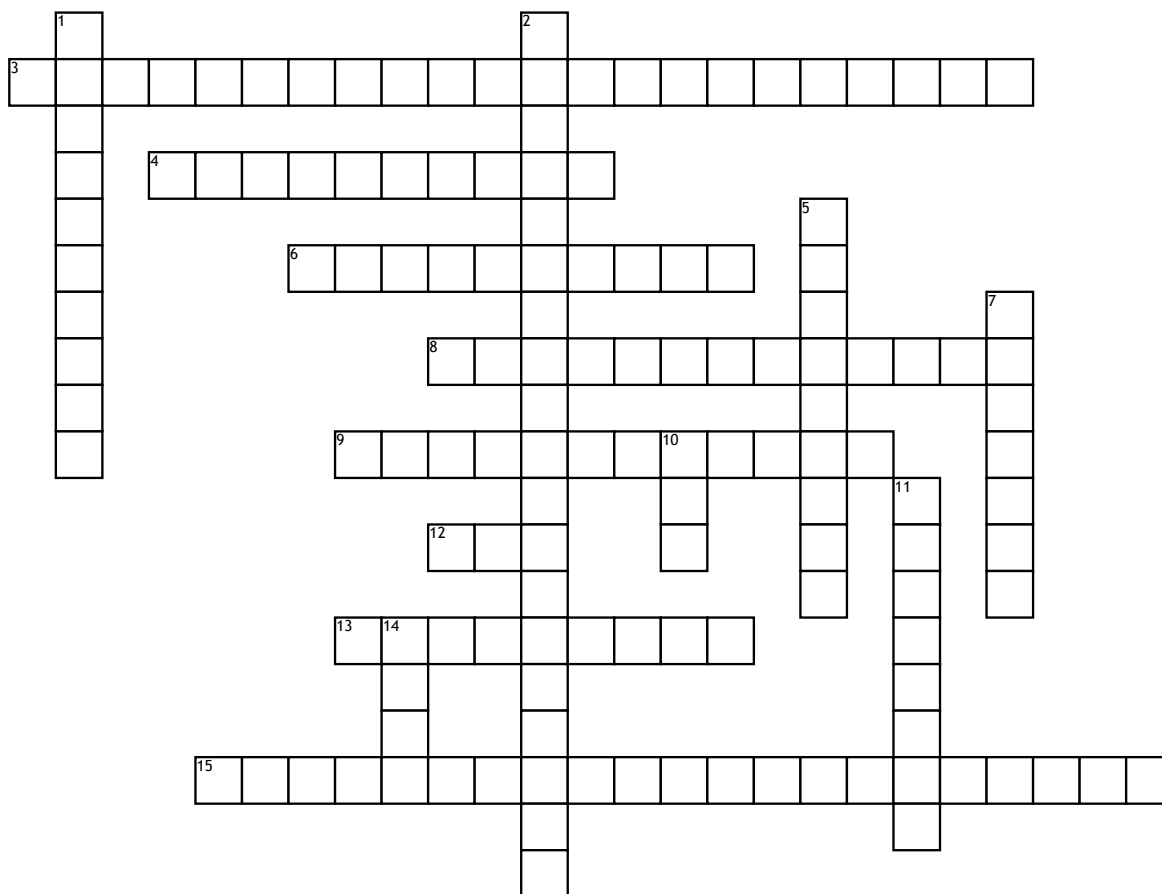


Name: _____

Date: _____

Cellular Respiration & Fermentation Crossword Puzzle



Across

3. The type of fermentation that causes your muscles to get sore.

4. The step in cellular respiration that uses pyruvate to create 2 ATP molecules and NADH for the electron transport chain

6. A series of anaerobic chemical reactions in the cytoplasm that break down glucose into pyruvate; forms a net profit of two ATP molecules.

8. Cellular respiration puts this back into the air.

9. The release of energy from food without the use of oxygen

12. Energy-storing molecule in cells composed of an adenosine molecule, a ribose sugar and three phosphate groups

13. The term that means "without oxygen"

15. Anaerobic process where cells convert pyruvic acid into carbon dioxide and ethyl alcohol

Down

1. The waste product that forms when pyruvate is broken down during lactic acid fermentation.

2. Chemical process where mitochondria break down food molecules to produce ATP;

5. The type of fermentation that allows bread to rise and cheeses to get different flavors/textures

7. The term that means "with oxygen"

10. Molecule formed from the breaking off of a phosphate group from ATP

11. The 3 carbon sugar that is a made from breaking down glucose during glycolysis.

14. Carries high energy electrons; it becomes NAD⁺ after being used.