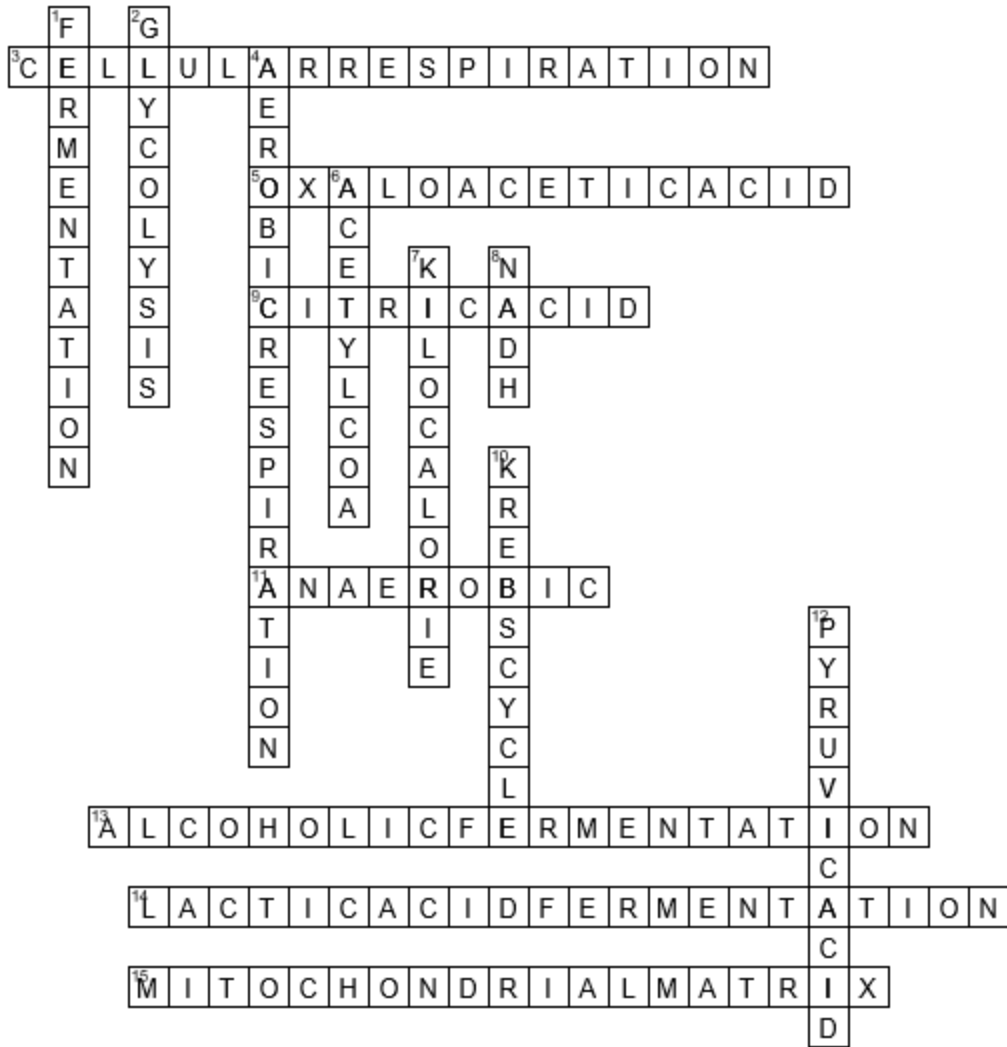


Cellular Respiration Crossword



ACROSS

- the process by which cells produce energy from carbohydrates; atmospheric oxygen combines with glucose to form water and carbon dioxide
- a four-carbon compound of Krebs cycle that combines with acetyl CoA to form citric acid
- a six-carbon compound formed in the Krebs cycle
- describes a process that does not require oxygen
- the anaerobic process by which yeasts and other microorganisms break down sugars to form carbon dioxide and ethanol
- the chemical breakdown of carbohydrates that produces lactic acid as the main end product
- the fluid that is inside the inner membrane of a mitochondrion

Cellular Respiration Crossword

DOWN

1. the breakdown of carbohydrates by enzymes, bacteria, yeasts, or mold in the absence of oxygen
2. the anaerobic breakdown of glucose to pyruvic acid, which makes a small amount of energy available to cells in the form of ATP
4. process in which NADH is used to make a large amount of ATP; the part of respiration that is carried out in the presence of oxygen
6. acetyl coenzyme A, a compound that is synthesized by cells and that plays a major role in metabolism
7. a unit of energy equal to 1,000 cal
8. the reduced form of NAD⁺; an electron-carrying molecule that functions in cellular respiration
10. a series of biochemical reactions that convert pyruvic acid into carbon dioxide and water
12. the three-carbon compound that is produced during glycolysis and needed for both the aerobic and anaerobic pathways of cellular respiration