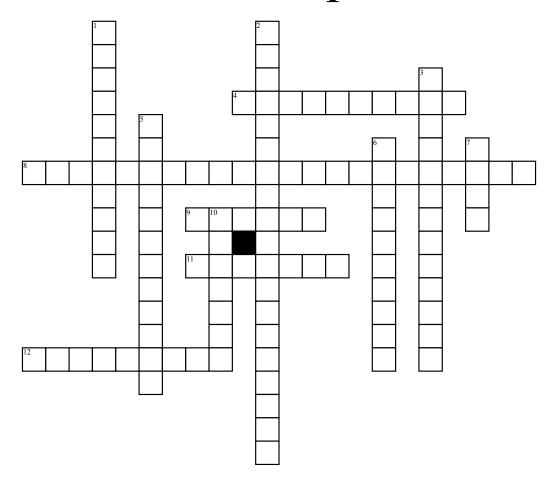
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## Cellular Respiration



## Across

- **4.** The first reaction of cellular respiration in the cytoplasm that breaks down glucose and extracts energy for cellular metabolism.
- **8.** The third reaction of cellular respiration that uses high-energy electrons from the Krebs cycle to convert ADP to ATP.
- **9.** The innermost part of the mitochondrion where the Krebs cycle occurs.
- 11. Folds in the inner membrane that provide the cell with more surface area for cellular respiration to occur.

**12.** A process that does not depend on or need oxygen.

## Down

- **1.** Supplies energy to cells during the Krebs cycle when oxygen is present.
- **2.** The process that releases energy from food when oxygen is present.
- **3.** A cell organelle that converts the chemical energy stored in food into compounds that are more convenient for the cell to use.
- **5.** A process in which energy releases from food molecules by producing ATP in the absence of oxygen.
- **6.** The second reaction of cellular respiration where pyruvic acid is broken down into carbon dioxide in a series of energy extracting processes.
- 7. Able to pick up a hydrogen ion and carry a pair of high-energy electrons which can be used to make more ATP. Also known as nicotinamide adenine dinucleotide.
- 10. A process that requires oxygen.

## **Word Bank**

Anaerobic Matrix NAD+
Electron Transport Chain Pyruvic Acid Cellular Respiration
Fermentation Krebs Cycle Aerobic
Cristae Glycolysis Mitochondrion