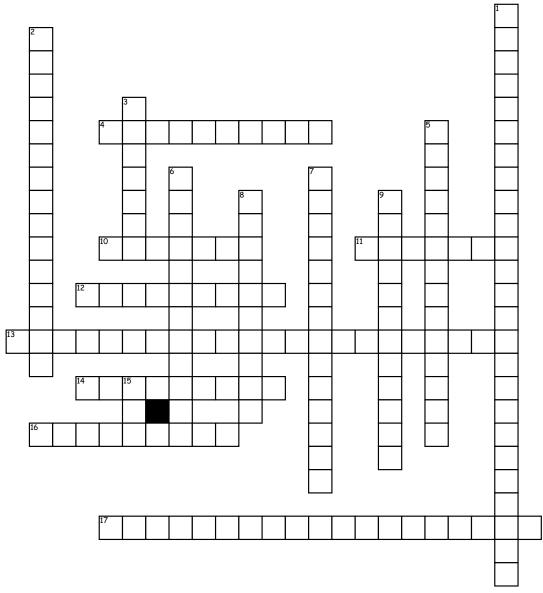
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## Cellular Energetics



## Across

- 4. The process of splitting a glucose molecule into 2 pyruvic acid molecules
- 10. A process that requires oxygen
- 11. The folded inner membrane inside a mitochondrion
- 12. Anaerobic process where cells convert pyruvic acid into carbon dioxide and ethyl alcohol
- Series of proteins embedded in a membrane along which energized electrons are transported.
- 14. A process that does not require oxygen
- **16**. Glycolysis happens outside the mitochondria in the

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

## **Down**

- 1. Phase of photosynthesis where energy from light-dependent reactions is used to produce glucose and additional ATP molecules
- 2. In cellular respiration, series of reactions that break down glucose and produce ATP
- 3. C6H12O6
- 5. Process by which autotrophs trap energy from sunlight with chlorophyll and use this energy to convert carbon dioxide and water into simple sugars

- 6. Cell organelle which acts as the cell's power plant to burn glucose and store energy as ATP
- 7. Phase of photosynthesis where light energy is converted to chemical energy in the form of ATP
- 8. The fermentation of human muscles in low oxygen conditions
- 9. If oxygen is not present, glycolysis is followed by \_\_\_\_
- 15. Molecule used by cells to store and transfer energy