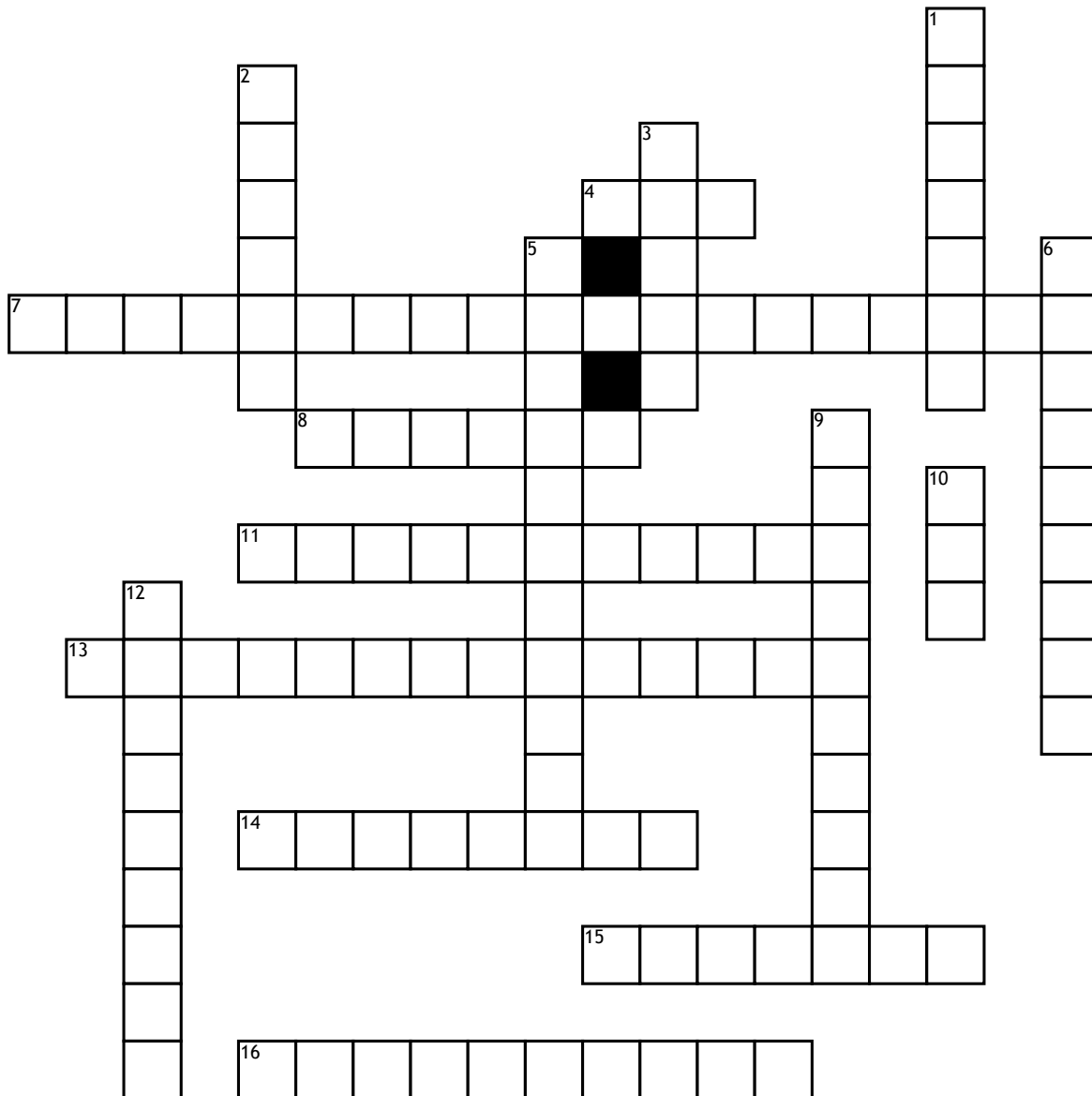


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# Photosynthesis Crossword



## Across

4. Carbon fixation pathway that evolved in some plants as an adaptation to arid conditions.
7. Catabolic pathway in which organic molecules are broken down to release energy for use by the cell.
8. Fluid filled space outside the grana in which light-dependent reactions take place.
11. Light-independent reactions during phase 2 of photo-synthesis in which energy is stored in organic in organic molecules as glucose.
13. Two phase anabolic pathway in which the sun's light energy is converted to chemical energy for use by the cell.

14. Toward the surface of a plant and where photosynthesis is typically occurs. Cells exposed to oxygen.
15. Light absorbing colored molecule, such as chlorophyll and carotenoid, in the thylakoid membrane of chloroplasts.
16. An aerobic process; first stage of cellular respiration in which glucose is broken down into 2 molecules of pyruvate.

## Down

1. A metabolic process that requires oxygen.
2. One of the stacks of pigment containing thylakoid in a plant's chloroplasts.

3. In photosynthesis, the major electron carrier involved in electron transport
5. Process in which NAD<sup>+</sup> is regenerated, allowing cells to maintain glycolysis in the absence of oxygen.
6. Metabolic process that doesn't require oxygen.
9. Series of reactions in which pyruvate is broken down into carbon dioxide inside of the mitochondria of cells; also called tricarboxylic acid cycle.
10. ENERGY
12. In chloroplasts, one of the stacked, flattened, pigment-containing membranes in which light-dependent reactions occur.