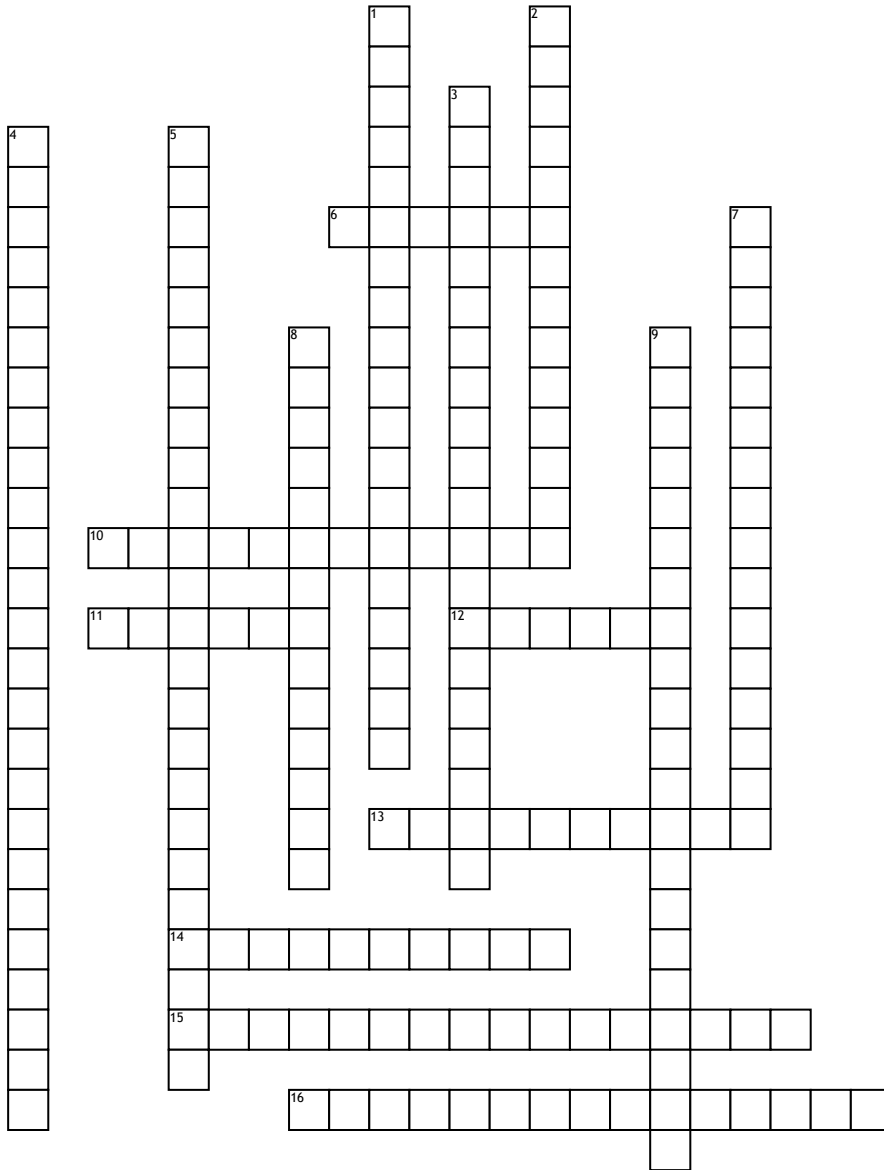


Cellular energy



Across

6. Autotroph that convert light energy from the sun into chemical energy

10. organisms that need to ingest food to obtain energy

11. Ability to do work

12. in cellular respiration _____ is used to break down organic molecules, resulting in the production of carbon dioxide and water

13. Organisms make their own food

14. All chemical reactions in a cell are referred to as the cell's

15. Release energy by breaking down larger molecules from smaller molecules

16. Use inorganic substances such as hydrogen sulfide as a source of energy

Down

1. is the catabolic pathway in which organic molecules are broken down to release energy for use by a cell

2. is the anabolic pathway in which light energy from the sun is converted to chemical energy for use by the cell

3. ATP release energy when the bond between the second and third phosphate groups is broken, forming a molecule called

4. Energy cannot be converted without the loss of useable energy

5. Energy can not be created nor destroyed, but converted from one form to another

7. Use the energy released by catabolic pathways to build larger molecules from smaller molecules

8. the study of the flow of transformation in the universe

9. is the most important biological molecule that provides chemical energy