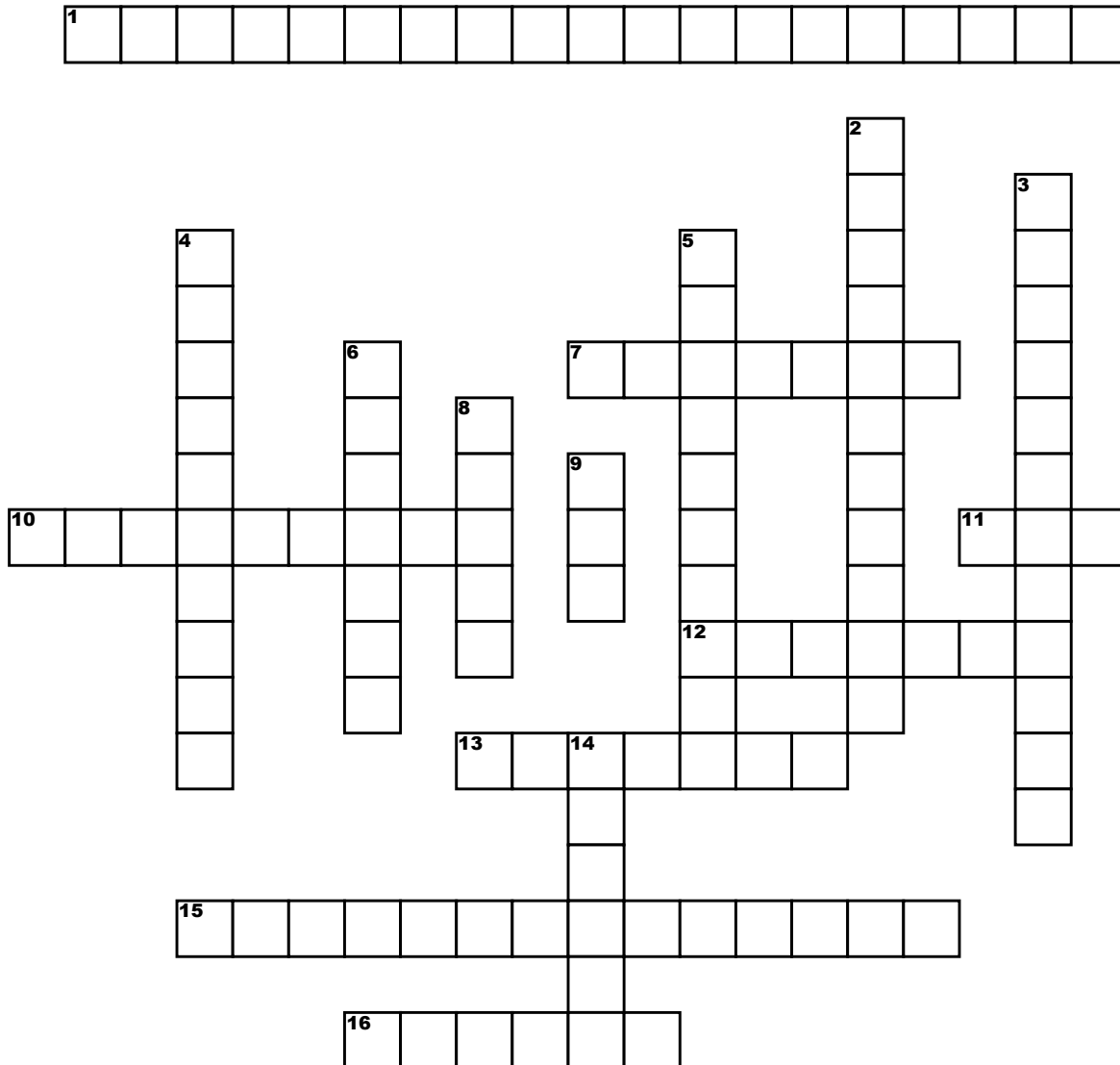


Name: _____ Date: _____ Period: _____

Biology photosynthesis



Across

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

7. metabolic process in which pyruvate is broken down & electron carrier molecules used to produce ATP through electron transport

10. in chloroplasts one of the stacked flattened pigment containing membranes in which light dependent reactions occur

11. energy carrying biological molecule which when broken down drives cellular activities

12. an adaptive pathway that helps plants maintain photosynthesis while minimizing water loss

13. light absorbing colored molecule such as chlorophyll and carotenoid in the thylakoid membranes of chloroplasts

15. two phase anabolic pathway in which the sun's light energy is converted to chemical energy for use by the cell

16. fluid filled space outside of the grana in which light dependent reactions take place

Down

2. light independent reactions during phase two of photosynthesis in which energy is stored in organic molecules as glucose

3. metabolic process that converts sugar to acids, gases or alcohol

4. the breakdown of glucose by enzymes, releasing energy and pyruvic acid

5. the sequence of reactions by which most living cells generate energy during the process of aerobic respiration

6. relating to, involving, or requiring free oxygen

8. in photosynthesis the major electron carrier involved in electron transport

9. they allow carbon dioxide to enter the leaves only at night when the atmosphere is cooler and more humid

14. one of the stacks of pigment containing thylakoids in a plant's chloroplasts