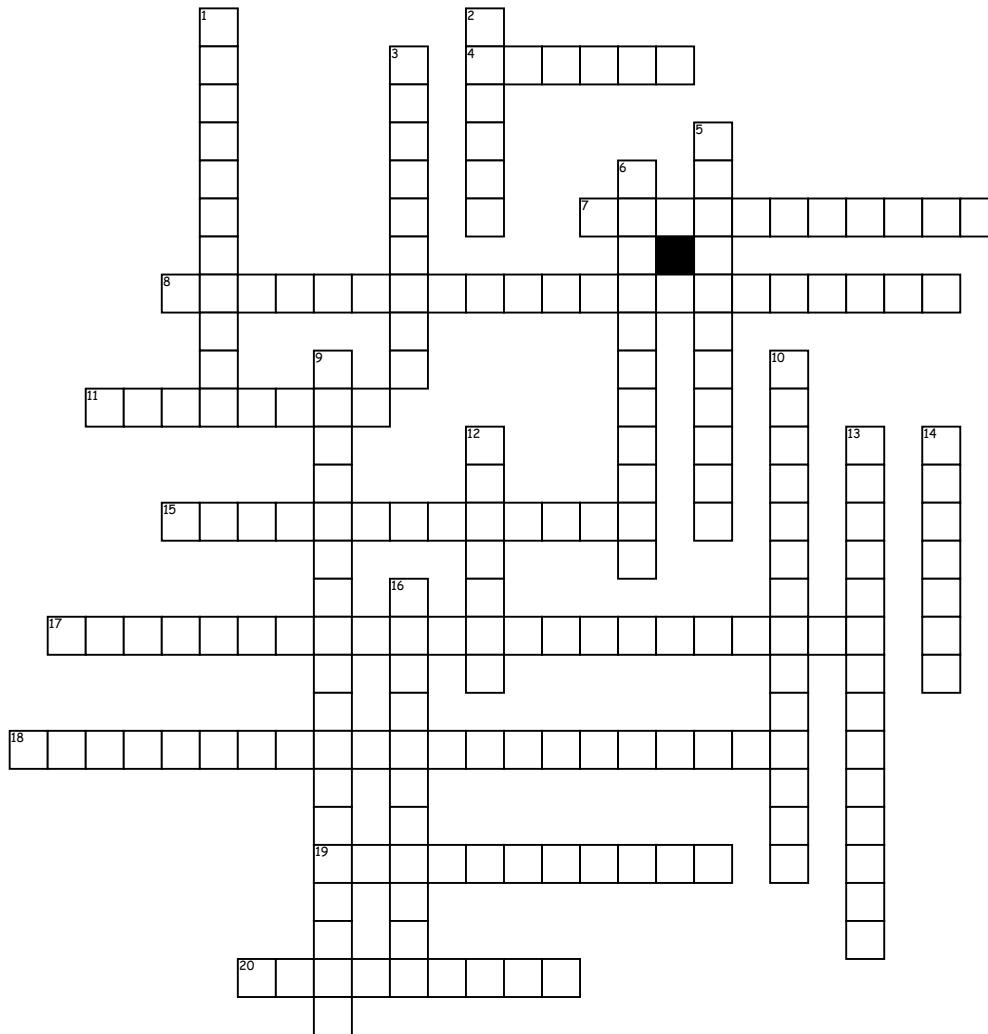


Photosynthesis



Across

4. Where does photosynthesis take place?
 7. What is energy from the sun that is used by plants to produce their own food by the process of photosynthesis?
 8. What is the photosynthesis equation?
 11. What is needed for photosynthesis?
 15. What is a gas taken in and used during photosynthesis?
 17. What are chemicals that absorb light energy and use it to carry out photosynthesis.
 18. What does ATP stand for?

Word Bank

Stomata
 Sunlight
 Carbon Dioxide
 Light Energy
 Leaves
 $6H_2O + 6CO_2$
 Product

19. What is the process in which carbon dioxide, ATP, and NADPH are turned into glucose, ADP, and NADP+. Also called the "Light Independent Reaction."

20. Organisms that make their own food

Down

1. Where in the cell does photosynthesis take place?
 2. What living organism is responsible for photosynthesis?
 3. Reactants of photosynthesis
 5. Products of photosynthesis
 6. Requirements for light dependent reaction

Calvin Cycle
 Chloroplast
 Photosynthetic Pigments
 Photosynthesis
 $6H_2O + 6CO_2 \rightarrow C_6H_{12}O_6 + 6O_2$
 Plants
 $C_6H_{12}O_6 + 6O_2$

9. What is the rate at which plants take in carbon dioxide, water, and the energy from sunlight to produce sugar?

10. What is converting light energy to the chemical energy of food, in plants?

12. What are the tiny holes in the leaves of the plant where gases like carbon dioxide and oxygen enter and exit

13. What is the the type of sugar made during photosynthesis?

14. What is a substance that is formed by a chemical reaction?

16. What is an organelle where photosynthesis takes place?

Chlorophyll
 Glucose(sugar)
 Photosynthetic Rate
 Autotroph
 Light/Water
 Adenosine Tri-Phosphate