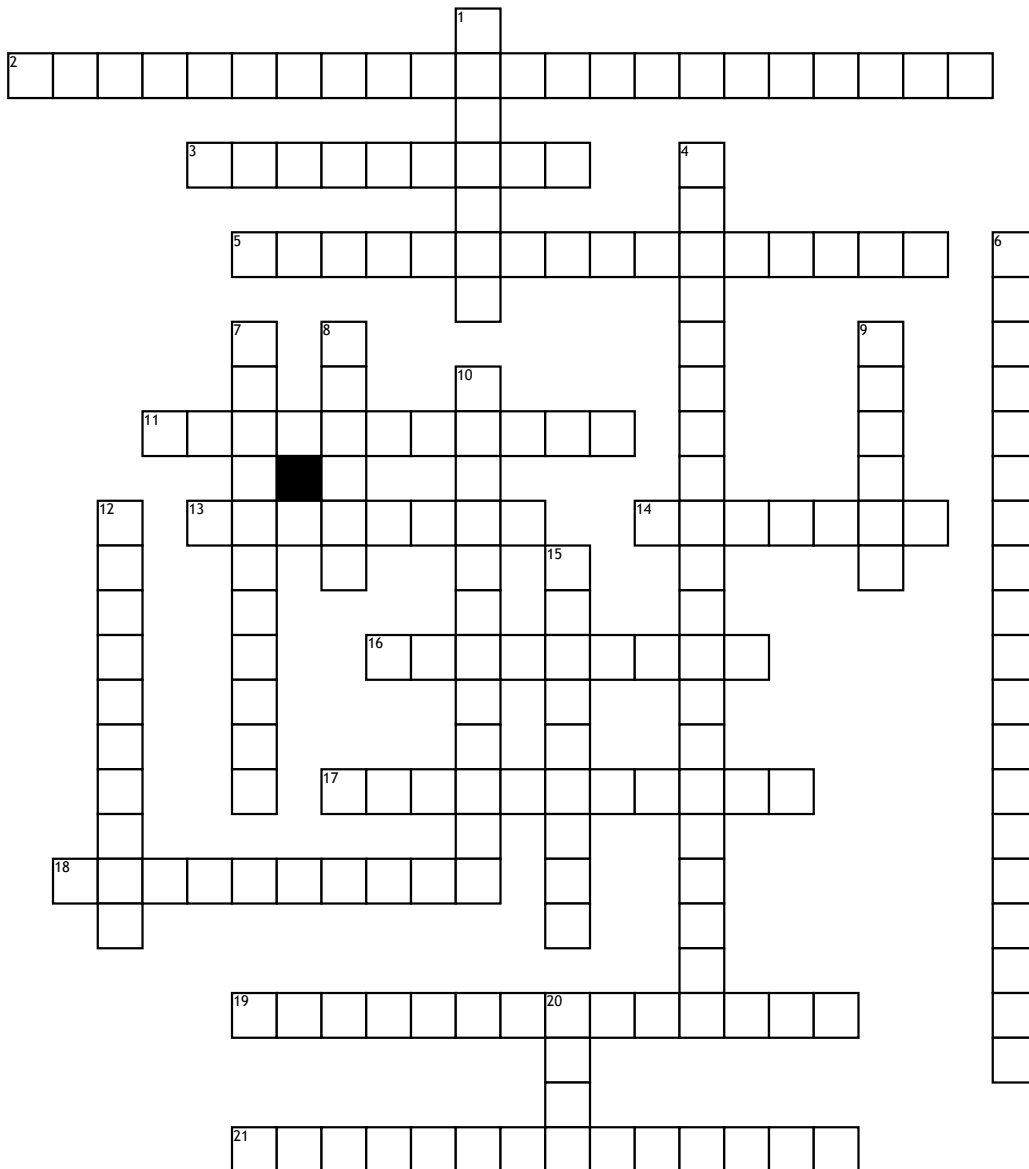


Photosynthesis & Cell Respiration



Across

2. series of electron carrier proteins that shuttle high-energy electrons during ATP generating reactions
 3. organisms that make their own food
 5. reactions that require no light and use the ATP and NADPH produced by the cell
 11. principal pigment in plants
 13. group of light-absorbing molecules in plants used to gather the sun's energy
 14. pathways of cellular respiration that require oxygen
 16. saclike photosynthetic membranes in chloroplasts
 17. organisms that obtain food by consuming other living things

18. the first set of reactions in cellular respiration, also known as "sugar-breaking"

19. process by which autotrophs use energy from sunlight to make food
 21. reactions that require the direct involvement of light and light-absorbing pigments

Down

1. the amount of energy needed to raise the temperature of 1 gram of water 1 degree Celcius
 4. important compound that cells use to store energy
 6. the process that releases energy from food in the presence of oxygen
 7. light independent reactions are also known as the:

8. fluid portion of the chloroplast outside the thylakoids

9. innermost compartment of the mitochondrion, site of the Krebs cycle reactions

10. clusters of chlorophyll and proteins

12. process in which pyruvic acid is passed down into carbon dioxide in a series of energy-extracting reactions

15. pathways of cellular respiration that don't require oxygen to run

20. an electron carrier that transfers from one molecule to another