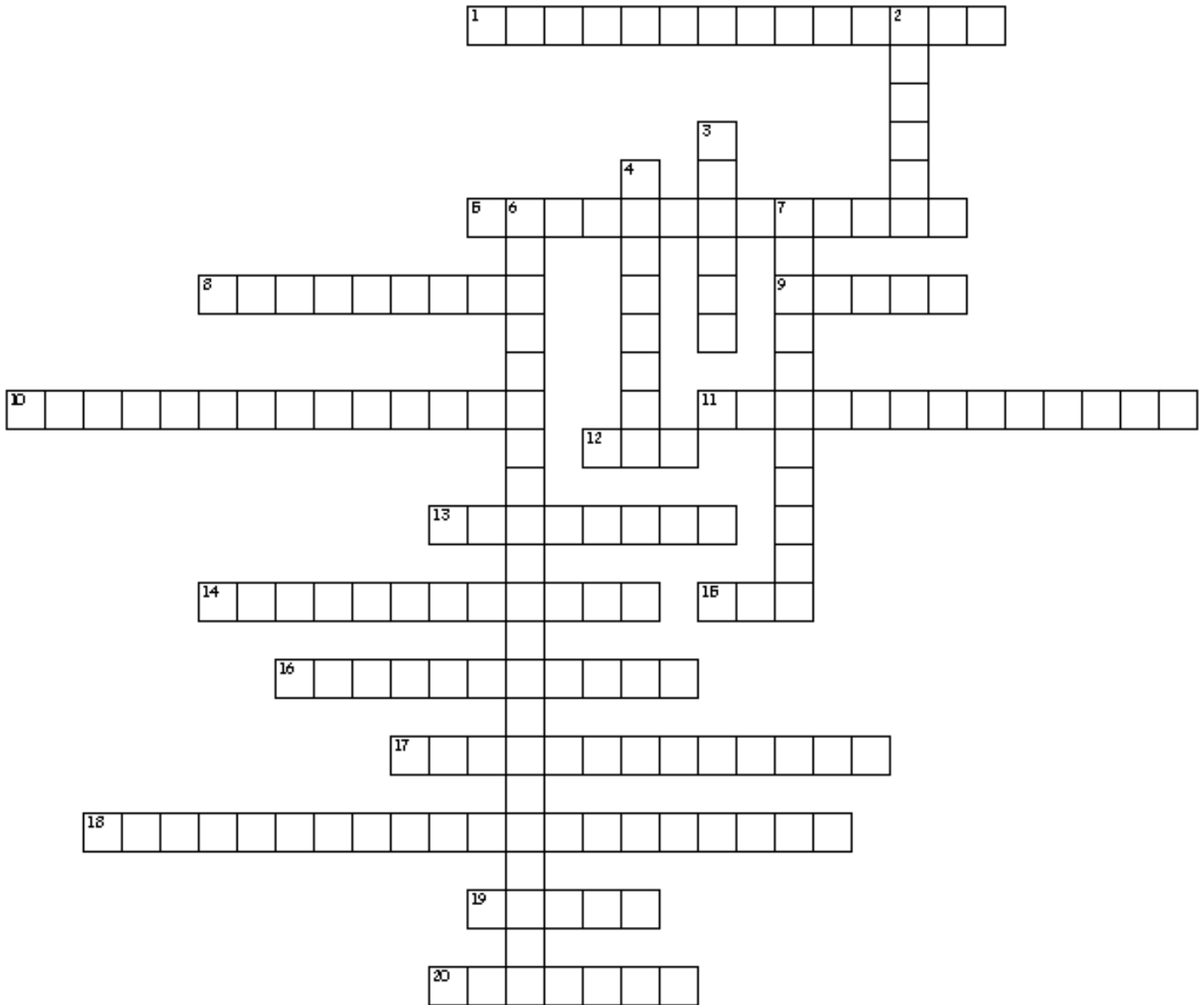


Name _____

Date _____

Read "**Energy Flow in Living Systems**" then answer the puzzle below.



Across

1. The type of energy found in gasoline
5. The product of photosynthesis represented by a candy bar
8. In ATP, the ribose molecule is attached to three ____ groups
9. This amount in kilocalories of energy are given off for use by the cell.
10. The process that transforms the sun's energy into the chemical energy of the carbohydrate
11. In addition to water, this is necessary for the process of photosynthesis
12. Living things use energy in this form
13. The sun's energy is what drives this type of reactions
14. An essential source of energy.
15. The source of all energy on Earth
16. The photosynthesizing organelle of the plant where solar energy is trapped
17. Where carbohydrates are transported to undergo respiration
18. This molecule contains adenine and a ribose molecule with only two phosphate groups
19. One of the by-products of respiration
20. One of the four nitrogenous bases found in DNA and RNA

Down

2. The five carbon carbohydrate component of the adenosine molecule
3. This is a waste product of photosynthesis and it is expelled from the plant cell into the atmosphere
4. The total amount of energy that exists in the universe remains _____
6. Energy-rich molecule
7. The process of combining carbohydrates with oxygen molecules