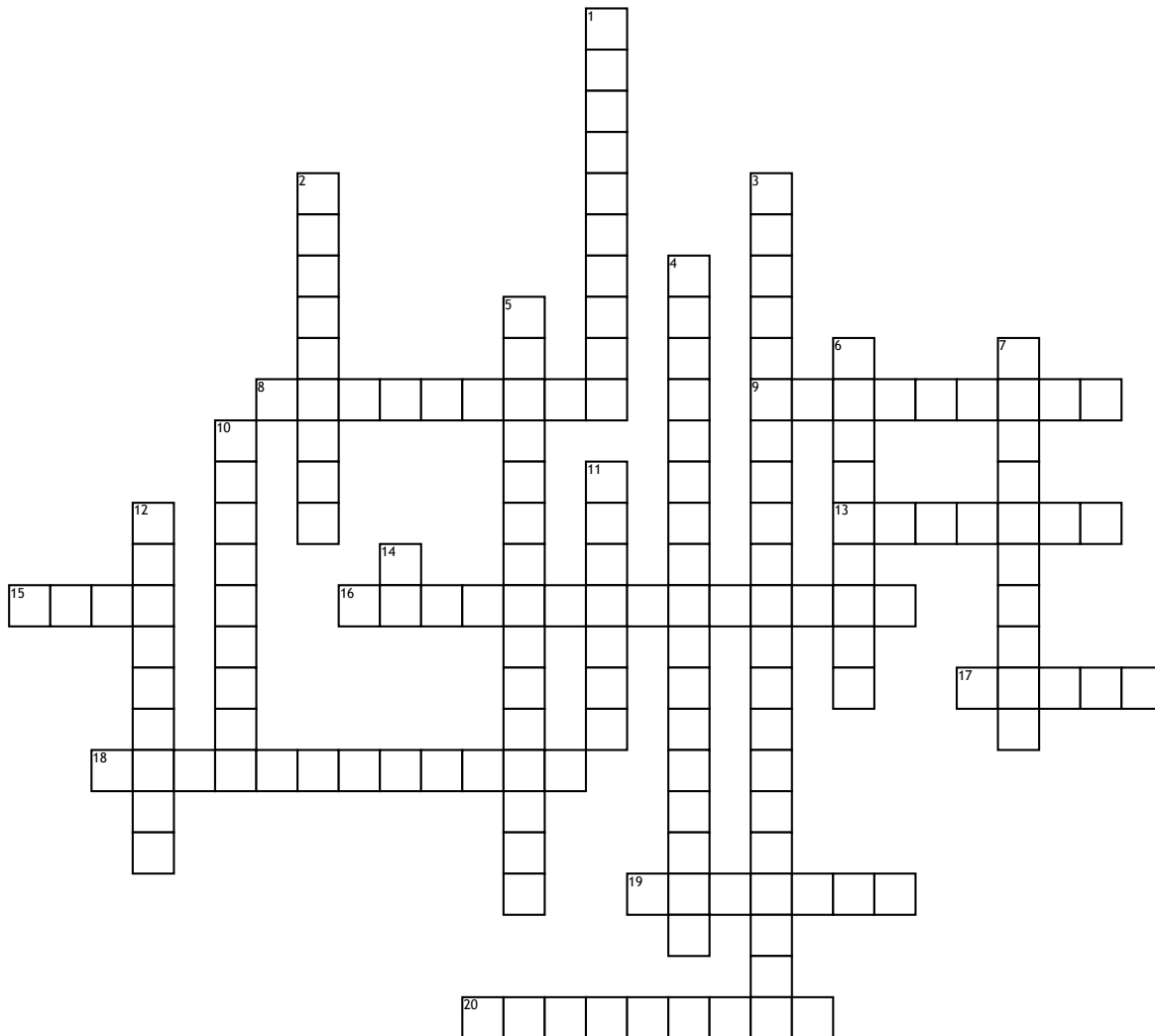


Name: _____

Date: _____

Energy Value of Food and Introduction to Energy Transport



Across

8. Nonprotein organic substances
 9. A physical or chemical process that releases energy to surroundings
 13. A _____ represents a measure of heat to express a food's energy value
 15. One calorie expresses the quantity of _____ needed to raise the temperature of 1kg of water by 1degree Celsius.
 16. An example of energy conversion
 17. The six forms of energy interconversions: chemical, mechanical, heat, _____, electrical, nuclear.

18. It reduces the coefficient of digestibility

19. Ninety two percent is the digestive efficiency of

20. A type of enzyme

Down

1. The process by which complex carbohydrates, lipid, and protein molecules are digested into simpler forms the body absorbs

2. Energy cannot be created or _____

3. Provides a useful estimate of the net energy value of typical foods consumed

4. The final common pathway in aerobic metabolism

5. Measures gross energy value of foods

6. Any process in which atoms in an element gain electrons with a corresponding net decrease in balance

7. A chemical reaction that stores or absorbs energy

10. A form of biologic work in humans

11. Protein catalysts

12. Energy exists in one of those two forms

14. Effects the action of enzymes