

Name:

Date:

Period:

Homework: Biochemistry and Plants

1. What are the following nutrients more commonly known as?

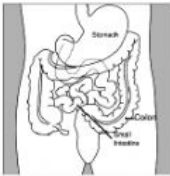
CARBOHYDRATES

AMINO ACIDS

LIPIDS

2. What are the names of all of the molecules found in the cellular respiration equation?

Cellular Respiration



3. Which body system is responsible for breaking down and absorbing nutrients into your body?

4. Which body system is responsible for distributing nutrients to the entire body once they have been absorbed?

5. What molecule is made in the cells to be used as an energy source?

6. What organelle (part of the cell) is this molecule produced in?

7. Use your notes to fill in the following information.

Genetics

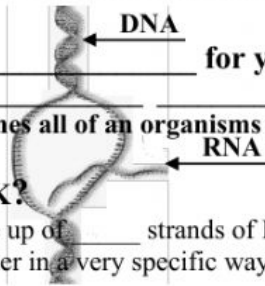
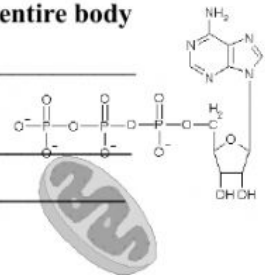
DNA is the _____ for your entire body.

The sequence of _____ carries the information that determines all of an organism's physical traits.

HOW DOES DNA WORK?

A double helix of DNA is made up of _____ strands of DNA. These strands line up their nitrogenous bases with each other in a very specific way:

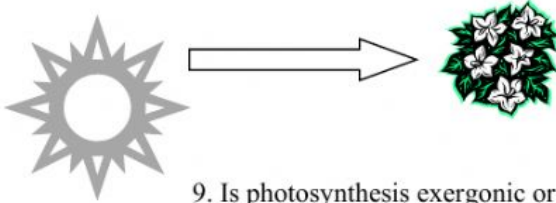
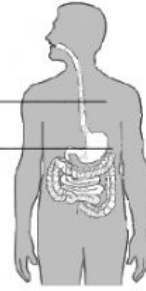
_____ pairs with _____ pairs with _____



These strands are broken apart so that they can be _____ into RNA.

The RNA is then _____ into amino acids

8. Is digestion exergonic or endergonic? Explain your answer? _____



9. Is photosynthesis exergonic or endergonic? Explain your answer? ____

10. What part of the plant is responsible for absorbing the sunlight that the plant needs for photosynthesis?



11. What part of the plant is responsible for absorbing water that the plants needs to for every cell?

12. Where exactly does carbon dioxide enter the plant? _____



13. What organism helps plants by turning nitrogen into a form that the plants can absorb through their roots? _____

14. What would allow a plant to survive in an area where sunlight was very limited?



15. What would allow a plant to survive in a desert where water was scarce and often only found deep underground?

16. What do you call of the waxy coating on the leaves that keeps water from evaporating from them?

