

Name: _____ Per: _____ Date: _____

DNA, Chromosomes, and Genes

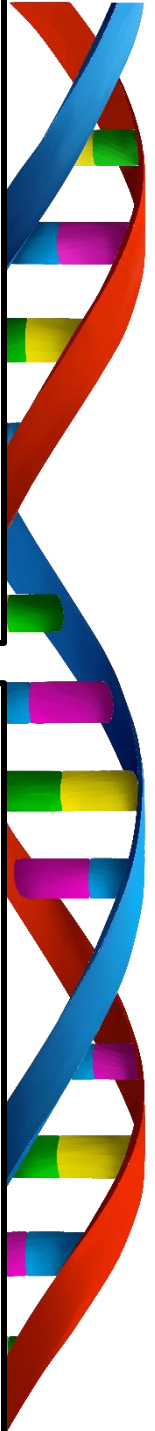
Directions: Use the website <https://learn.genetics.utah.edu/content/basics/?nt=1> and complete the following questions.

WHAT IS A TRAIT?

1. What is a trait?
2. Give two examples of traits that are "easy to see," and two examples of traits that are "not easy to see."
3. How does the environment influence your traits? Give an example.

WHAT ARE DNA AND GENES?

4. What is found in the molecule DNA?
5. Draw a molecule of DNA. What four letters or "bases" are found in a DNA molecule?
6. What is a gene?
7. What causes each person to be unique?



WHAT ARE PROTEINS?

8. Why are proteins important? What do they do?

WHAT IS INHERITANCE?

13. When living things reproduce, what do they pass to offspring?

14. How do offspring made through asexual reproduction compare to their parent genetically?

15. How many copies of each gene do you receive from your parents?

16. What do you think genetic variation is?

WHAT IS A MUTATION?

9. What is one cause for the differences in our genes?

10. What are two examples of "typos" that happen when DNA is being copied?

11. About how many new mutations (or variations) do we have that were not in our parent's DNA?

12. Are all mutations bad? Explain.