

## **Heredity and Genetics**

Name \_\_\_\_\_ Per. \_\_\_\_\_

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1. List some traits in humans that make each individual unique.
2. Describe the differences between heredity and genetics.
3. How many different genes for eye color do you have? \_\_\_\_\_ Explain.
4. Are acquired skills inherited? \_\_\_\_\_ List several acquired skills that humans might have.
5. Arrange the terms genes, DNA, and chromosomes in order so that the following sentence is true: The nucleus of each human cell contains 46 \_\_\_\_\_ which is made of a long molecule called \_\_\_\_\_, on which are contained thousands of \_\_\_\_\_.
6. List some acquired skills of other animals.
7. Why do chromosomes come in pairs?
8. What is an allele?
9. Explain the difference between a hybrid and a pure trait. Include the term allele in your answer.
10. If a person has blue eyes, but both his parents had brown eyes, infer whether the parents were hybrid for the eye color trait or pure. \_\_\_\_\_ Why?