

Name:

ANSWER KEY

Per.: \_\_\_\_\_

### Genetics and Heredity Quiz Study Guide

Directions: Complete the following

1. What was Gregor Mendel's contribution to the science of genetics?

**Gregor Mendel's principles of inheritance form the basis of modern genetics. By experimenting with pea plant breeding, Mendel developed three principles of inheritance that described the transfer of genetic traits, before anyone knew genes existed. Mendel's experiments greatly expanded the understanding of genetic inheritance, and led to the development of new experimental methods.**

2. What organism did Gregor Mendel study?

**Gregor Mendel studied pea plants.**

3. List at least 5 traits that Mendel observed in his experiments?

**Plant Height**

**Flower Color**

**Pod Color**

**Pod Shape**

**Seed Color**

**Seed Shape**

4. What is a trait?

**In biology, a trait or character is a feature of an organism. Traits can be inherited or acquired.**

5. How are traits passed from parent to offspring?

**A trait is passed from parent to offspring through DNA. Segments of DNA, called genes, are the instructions for trait development. Offspring receive 50% of their DNA from each parent in sexual reproduction.**

6. What is meant by the following statement: "Some of the characteristics of an organism are inherited and some result from interactions with the environment."?

**While inherited traits are controlled by genes, interactions with the environment can influence the development of traits. For example, exercising can increase strength, exposure to UV rays can cause skin disorders, and exposure to certain chemicals can cause illness that would not ordinarily develop.**

7. What is the difference between a phenotype and a genotype?

**Genotype is the genetic makeup of an organism that is based upon the combination of alleles. The phenotype is the physical expression (appearance) of the trait that is controlled by alleles.**

8. What are the differences between dominant traits and recessive traits?

**A dominant trait will always appear if the dominant allele is present. A recessive allele will only appear if two recessive alleles are present. A recessive trait will be masked (hidden) by a dominant trait.**

9. What is the difference between a purebred trait (homozygous) and hybrid trait (heterozygous)?

**A purebreed is a homozygous allele combination. This means that the alleles that control the trait are the same. A hybrid, heterozygous trait is due to alleles for the trait that are different.**

# Genetics And Heredity Study Guide Answer Key

**Camilla Rothe**



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