Learning Activity Sheet
Basic Principles of Mendelian Genetics

Directions: Read and understand each question carefully. Write the letter of the correct answer in the space provided before each number.

_____1. If a tall plant has a short parent, what is the genotype of the tall plant?

    A. TT

    B. Tt

    C. tt

    D. TTT

_____2. What is an allele?

    A. the basic unit of life

    B. another word for a gene

    C. a functional unit of heredity

    D. an alternative form of a gene

_____3. What does the word genotype refer to?

    A. a gene with abnormality

    B. the chromosome of an organism

    C. the genetic constitution of an organism

    D. the physical expression of a gene

_____4. How will you describe a person with a genotype tt?

    A. dominant

    B. heterozygote

    C. heterozygous

    D. recessive

_____5. Who is the Father of Genetics?

    A. Gregor Mendel

    B. William Bateson

    C. Reginald Punnett

    D. Thomas Hunt Morgan

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_____6. Which of the following is not a Mendelian law?

A. law of dominance

B. law of segregation

C. law of inertia

D. law of independent assortment

_____7. What does the word genotype refer to?

A. the chromosome of an organism

B. the genetic makeup of an organism

C. a gene with abnormality

D. the physical expression of a gene

_____8. Why did Gregor Mendel choose pea plants for his experiment?

A. They have many visible traits.

B. They grew quickly in large amount.

C. Their mating was easy to control.

D. All of these

_____9. Which of the following statements is true about Gregor Mendel?

A. He used a dog to perform his experiment about genetics.

B. His ideas about genetics can apply to plants and animals.

C. He believed that genetic traits of parents will usually blend in their children.

D. His discoveries concerning genetic inheritance were generally accepted by the scientific community when he published them during the mid-19th century.

_____10. What does the word phenotype refer to?

A. undetected characteristics

B. the chromosome of an organism

C. the genetic makeup of an organism

D. an organism's appearance or other detectable characteristics

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