

1. What is considered to be the "father of genetics"? **Mendel**

2. Explain what Mendel's laws mean to someone who has just learned them. They are really designed to show they are passed from parent to offspring.

offspring are always formed? **Genetics involving reproduction. Parental separation.**

Offspring are formed and homozygous and heterozygous genotypes are the Parental square.

Define the following terms:

Alleles: Different forms of a gene. (It's gene codes for traits either the allele would be the specific trait)

Homozygous: Traits that come up in repeated sets.

Heterozygous: Traits that are only expressed in the absence of a dominant trait.

Genotype: Exact DNA sequence (letter).

Phenotype: How different alleles interact.

Genotype: The possible combinations of alleles (letter).

Phenotype: The physical traits that are expressed.

Describe the genotype, heterozygous or homozygous, and alleles if they are expressed. Dominant or recessive traits.

1. **AA** - Homozygous Dominant **aa** - Homozygous Recessive **Aa** - Heterozygous Dominant

2. **Aa** - Heterozygous Dominant **aa** - Homozygous Recessive **AA** - Homozygous

Describe the genotype and phenotype of the individuals below.

1. **Short, smooth, 40 grams, black.** Parent 1: Heterozygous dominant (Aa) Homozygous

Parent 2: **Carrier** Aa, Homozygous, Carrier

Parent 2: **Carrier** Aa, Homozygous, Carrier

2. **Short, 40 grams, 40 grams, 40 grams, 40 grams.** Parent 1: Heterozygous dominant (Aa) Homozygous

Parent 1: **Carrier** Aa, Phenotype, Heterozygous

Parent 2: **Carrier** Aa, Phenotype, Heterozygous

3. **Short, 40 grams, 40 grams, 40 grams.** Parent 1: Homozygous, Parent 2: Homozygous

Parent 1: **Carrier** Aa, Phenotype, Heterozygous

Parent 2: **Carrier** Aa, Phenotype, Heterozygous

Genetics And Biotechnology Study Guide Answer Sheet

Arshad Iqbal



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