Mendel & Punnett Squares

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**Content Purpose: Explain Gregor Mendel’s pea plant experiment and analyze genetic expression via Punnett Squares.**

Mendel used \_\_\_\_\_\_ plants to show genetic material was transferred from \_\_\_\_\_\_\_\_\_ to \_\_\_\_\_\_\_\_\_.

Punnett Squares are used to find the \_\_\_ \_\_\_\_\_\_\_\_ of a gene expression between two parents.

Example:

White Rabbit (rr) and Black Rabbit (RR)

R R

|  |  |
| --- | --- |
| Rr | Rr |
| Rr | Rr |

r

r

100% of the rabbits will be black.

Both White (rr) and Black (RR) are homozygous traits.

RR and rr are genotypes.

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Try it… White Rabbit (rr)

 Black Rabbit (Rr)

|  |  |
| --- | --- |
|  |  |
|  |  |

What is the probability outcome?

Write 2-4 line explaining who Mendel is and explain his contributions to the science of heredity. Use related genetic vocabulary (dominate and recessive trait, genotype, phenotype and homozygous and heterozygous)