## Mendel's Laws & Monohybrid Crosses Notes Mendel's Conclusions In his crosses each trait had a \_\_\_\_\_\_ which masked, or dominated the other factor for a specific trait. The other trait we call the Mendel's Seven Traits Dominant -27 Mendel's Conclusions \_: Each organism contains two factors for each trait; factors segregate in the formation of gametes. When two gametes combine during fertilization, the offspring have two factors controlling a specific trait. : states that factors for different characteristics are distributed to gametes independently. **Genetics Vocabulary** the unit of heredity; a section of DNA sequence encoding a single protein - two genes that occupy the same position on homologous chromosomes and cover the same trait - a fixed location on a strand of DNA where a gene or one of its alleles is located Homozygous -Heterozygous - \_\_\_\_ Phenotype -Genotype -\_\_\_\_\_ - the trait that appears in the heterozygous condition. - the trait that is masked in the heterozygous condition. Monohybrid cross - cross involving a single pair of genes, one trait

\_\_\_\_\_ – "kids"

- "parents"

event will occur from random chance

offspring

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\_\_\_\_\_ - "grandkids"

\_ - is the likelihood that a specific event will occur or is the likely outcome a given

- used to aid in predicting the probability that certain traits will be inherited by

**How To: Monohybrid Crosses** 

|   | Steps                                      | Notes | minant to white in bunnies.  Example |
|---|--|-------|--------------------------------------|
|   | Determine the dominant and recessive trait |       | Lxample                              |
| 2 | Assign letters for the trait               |       |                                      |
| 3 | Determine genotype for parents             |       |                                      |
|   | Put parents on the square                  |       | •                                    |
| 5 | Determine genotype of offspring            |       |                                      |
| 6 | Determine genotype ratio                   |       |                                      |
| 7 | Determine phenotype ratio                  |       |                                      |