

Dragon Genetics

— Independent Assortment and Genetic Linkage

Hereditary traits (morphological and physiological characteristics) follow predictable patterns of inheritance, and the laws governing these patterns (Mendel's experiments on *Pisum sativum* and other plants) are essential to understanding how traits are passed on.

In this activity you will study the patterns of inheritance of multiple genes in (imaginary) dragons. These dragons have two pairs of homologous chromosomes in each cell. You will see that, since genes are carried on chromosomes, the patterns of inheritance are determined by the behavior of chromosomes during meiosis and fertilization.

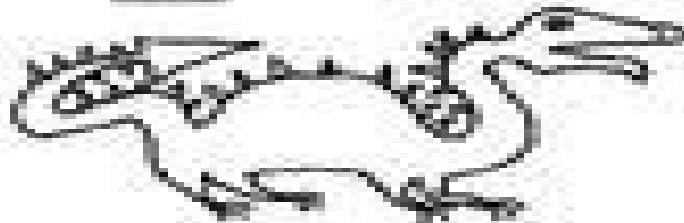
The Law of Independent Assortment — Inheritance of Genes on Different Chromosomes

For this activity, we will only consider one gene on each chromosome. These genes are described in the following table.

	Dominant Alleles	Recessive Alleles
Chromosome 1	W = long wings	w = no wings
Chromosome 2	H = big horns	h = small horns

The mother dragon is heterozygous for the wing gene (Ww) and the horn gene (Hh). The father is homozygous recessive for the wing gene (ww) and the horn gene (hh). What phenotypic traits will each parent have? (If homozygous traits are the observable bodily characteristics.) Draw the appropriate characteristics for each parent.

Mother



Father



Review of Inheritance of Single Genes

Draw a Punnett Square to show the inheritance of the horn alleles for a mating between this mother and father.

On average, what fraction of the baby dragons will have big horns?

¹ Mendel's first experiments used pea plants (*Pisum sativum*). A flower color gene and a gene for seed shape were used. Mendel's experiments with pea plants and other organisms helped him develop his laws of inheritance. <http://www.ck12.org/section/mendels-experiments/>

Genetic Linkage Dragon Answers

Christian G. Meyer



Genetic Linkage Dragon Answers:

Unveiling the Magic of Words: A Overview of "**Genetic Linkage Dragon Answers**"

In a world defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their power to kindle emotions, provoke contemplation, and ignite transformative change is actually awe-inspiring. Enter the realm of "**Genetic Linkage Dragon Answers**," a mesmerizing literary masterpiece penned by a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve to the book is central themes, examine its distinctive writing style, and assess its profound impact on the souls of its readers.

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