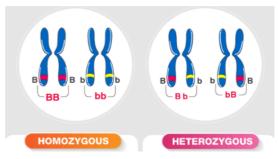
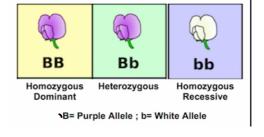
Tutorial: Monohybrid Cross

Important terms

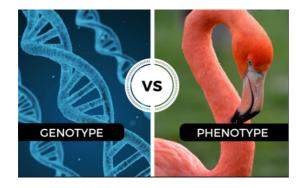
Homozygous vs. Heterozygous

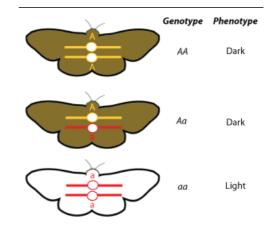


Dominant vs. Recessive



Phenogype vs. Genotype





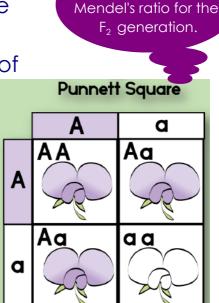
- In 1905 the first textbook of genetics was written by Reginald Crundall Punnett called "Mendelism".
- The text included a grid for predicting the outcome of a cross, now known as a <u>Punnett square</u>.



1. Tutoria Notesl - Monohybrid Cross (work shown)

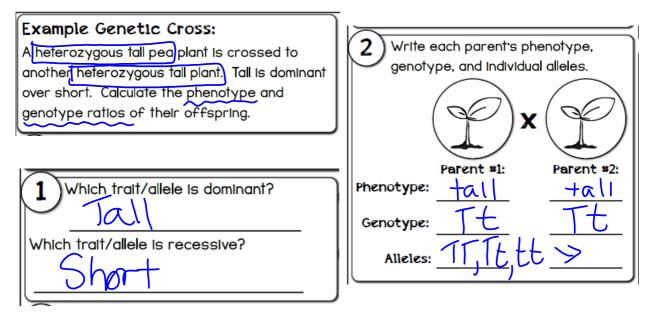
Punnet Squares Introduction:

- Are a tool that help scientists figure out:
 - 1. all the possible combinations of alleles an offspring can have
 - 2. the probability of each allele combination in the offspring.

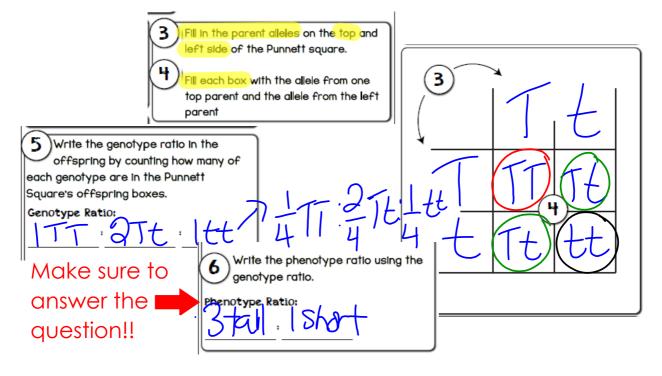


Hmm... this matches

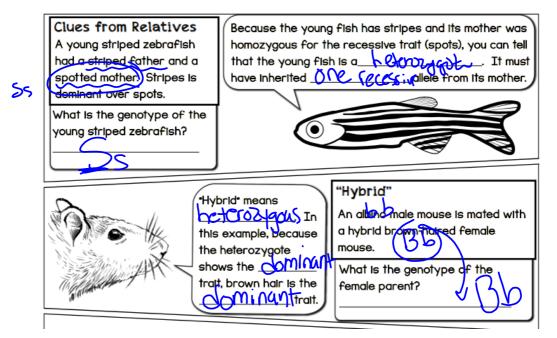
Intro. to Using Punnett Squares:



1. Tutoria Notesl - Monohybrid Cross (work shown)



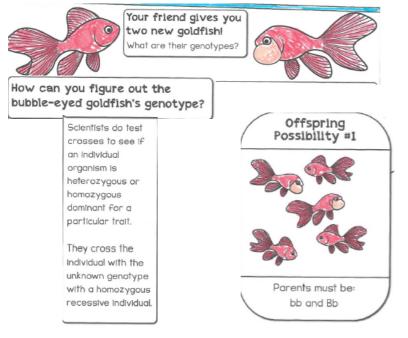
Key is Knowing what you are being asked for!!

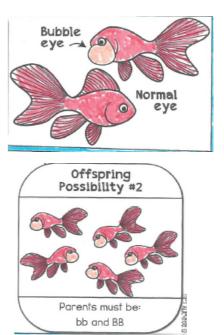


1. Tutoria Notesl - Monohybrid Cross (work shown)

"True-breeding" A true breeding brown bodied male fly with a white-bodied female fly. The bro allele is dominant over the white body of (Use B for brown and b for white) What is the genotype of the male pare	own body illele.
To figure out which allele is dominant, look at the phenotype of a <u>CCCC</u> IGWS. Individual in the problem. The has the <u>CCC</u> IGWS individual has the <u>CCC</u> IGWS individual	Dominant or Recessive A heterozygous round-seed peo plant is crossed with a wrinkled-seeded peo plant. Which allele is dominant? Which allele is dominant? Simple Mendelen Acro Problem Clues

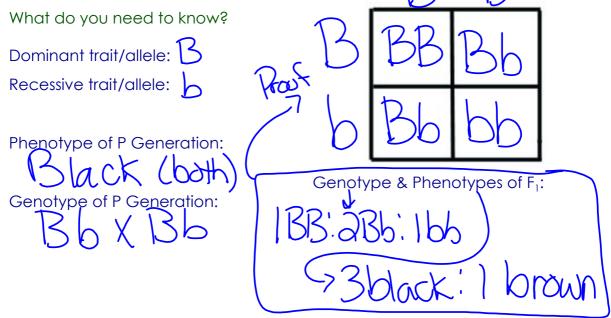
Test Cross: Goldfish





Practice Question #1: * Pause the video for more time!

In a certain species of animal, black fur (B) is dominant over brown fur (b). Predict the genotypes and phenotypes of the offspring whose parents are both heterozygous for black fur.



Practice Question #2: * Pause the video for more time!

What are the genotypes and phenotypes of offspring when one parent is homozygous black and the other is homozygous brown?

