

Name: _____

Date: _____ Period: _____

14:4 Probability and Heredity -- Cornell Notes
Pages 538-543

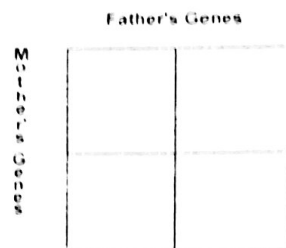
Topic/Question	Information
What is probability?	
What do the laws of probability predict?	
What is the "Independence of Events?"	
What is a Punnett Square?	
How are Punnett Squares and Probability related?	
Read/Observe Figure 22 on pages 540-541. Now copy the completed square (part 5), showing all possible allele combinations.	
In the guinea pig cross, what is the probability all offspring will have black fur?	
What is a phenotype?	
Give an example of a phenotype	
What is a genotype?	

Give an example of a genotype	
What is the difference between homozygous and heterozygous?	
Give an example of a homozygous allele	
Give an example of a heterozygous allele	
What is codominance?	

Punnett Square practice:

Mom is heterozygous dominant for the trait of a widow's peak.

Dad is homozygous recessive for the trait of a widow's peak. Draw a Punnett square showing the possible allele combinations of their children.



Suzie can roll her tongue. Mom and dad cannot. What are the possible alleles for Suzie and her parents?

Suzie: Mom and Dad:

Based on this data, do you believe the hospital Suzie was born in made a mistake? Why or why not?