PU	NNETT SQUARE Webquest	Name	
Scien	nce	Date	
VOC	CABULARY TO KNOW: http://www.kum	PART I c.edu/gec/glossnew.html	
	ninant allele-		
Rece	essive allele-		
D			
Dom	ninance-		
Code	ominance-		
Inco	mplete dominance-		
Gen	otype-		
Pher	notype-		
http:	//www2.edc.org/weblabs/IncompleteDorerform the following activities that teach	m/incompletedominance.html	o Dominance and
	ominance. Then, answer the questions b		a Dominance and
1.	What is the allele for purple flowers?		
2.	What is the allele for white flowers?		
3.	What is the appearance (color, pheno	otype) of the following allele co	ombinations?
0.		type, er and reneming amere es	
	PP =		
	Pp =		
	pp =		

PART II on back

PART II

VOCABULARY TO KNOW: http://www.kumc.edu/gec/glossnew.html

Homozy	gous-
Heterozy	/gous-
Genotyp	e-
Phenoty	pe-
	tp://www2.edc.org/weblabs/Punnett/punnettsquares.html to perform the following using Punnett Squares. Read each page carefully. Answer the following questions as you
1.	A. What percentage would you expect to be BROWN CHICKS?
	B. What percentage would be HYBRID BROWN?
2.	A. What percentage of the lemmings would be carriers (hybrid)? B. How many of the four offspring lemmings would be albino?
	C. What is the genotype of the albino offspring?
2.	Write down the alleles for the lemming traits of
	 a. Long tail= b. Short tail = c. Brown = d. Albino =
3.	Which two lemmings created the albino baby?
	a. What are their numbers? and

b. What are their genotypes? ____ and ____

Genetics and Heredity Webquest

- **1.** There are 3 websites listed here.
- 2. For each link, there are questions and directions below.

Link #1 – Virtual Genetics Punnett Squares

http://www.mhhe.com/biosci/genbio/virtual labs/BL 05/BL 05.html

- 1. Read through Objectives and Instructions on the left. It's very important that you read these before beginning.
- 2. Click on the TV for a review of how punnett squares work.
- 3. Click on the notebook on the table to complete genetics crosses. After you complete each cross, record your results in the data table below. Hit Reset for the next problem in the set. There are 10 problems total you need to do 5.

Genotype of Parent 1	Genotype of Parent 2	% Homozygous and Heterozygous	% Phenotype
_			

Link #2 – Punnett Squares http://www2.edc.org/weblabs/Punnett/punnettsquares.html					
1.	Read the descr	ription of the proble	m and th	e review of	the punnett square.
		to get your first que ing punnett square			

4.	Answer the question about albino gene carriers. The answer:				
5.	Which two lemmings will you choose to cross?			_ x	
6.	Show the punnettt square for this cross:	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		1	
		÷			

<u>Link #3 – Inheritance Practice Quiz</u>

- Click to enter the site http://anthro.palomar.edu/practice/mendqui2.htm
 Answer each question. Record the correct answer, an explanation and your work here:

Question	Answer	Explanation
1		
2		
3		
4		
5		
6		