	R		
R	RR	Rr	Probability & Heredity:
r	Rr	rr	Punnett Squares

Name:	
Date:	
Core:	

r	Kr I	r differences		ore:			
Re	view:	Vocabulary					
-	<u>Domir</u>	nant Alleles are more	and can "	″ a recessi	ve trait.		
	0	Shown with an	letter. "T" for tall stem	5.			
-	Reces	sive Alleles can be "	″ when a	allele is p	resent.		
	0	Shown with a	letter. "t" for tall stem	IS.			
-	<u>GENO</u>	TYPE describes which	are present.				
-	PHENOTYPE describes what the looks like.						
-	<u>HOMC</u>	<u> ZYGOUS</u> – the organism has		Example - 🗆	Example - TT or tt		
-	<u>HETEF</u>	ROZYGOUS – the organism has _		Example = Tt			
W	hat is	a PUNNETT SQUARE?					
		t square:					
	0	is a chart that shows		of a genetic	cross.		
		shows					
	0	is also used to offspring will have a certain tra					
Но	w do	we draw a Punnett Square?					
		-		the second secon	Kalaman C. Norge		
-		by drawing a box and dividing it int	•		ļ		
2)) Write 1 parents alleles along the top, and the other parent's alleles down the side.			4			
3)	Copy 1 parent's alleles into the boxes to the right.						
4)	Copy t	the other parent's alleles into the b	oxes below.	The second secon	(gayetaa		
5)	The completed punnett square shows all the possible allele combinations in the offspring.						
Fro	m the	punnett square it is possible to det	ermine the "	" (chance) that	an		
off	spring v	will have: - a	(or	%) OR		
		- a	(or	%).		

Trv	one	on v	vour	own
		VII Y	your	

 Cross a homozygous (purebred) guinea pig with black fur (BB) with a homozygous (purebred) guinea pig with white fur (bb). Black fur is dominant over white fur. What is are the possible offspring from this cross? Genotype? Phenotype? 						
More crosses for practice						
1) Cross a heterozygous tall pea plant (Tt) with a homozygous short pea plant (tt).		and the same of the same of the same				
What are the possible offspring from this cross?						
Genotype?						
Phenotype?						
a) What is the % chance the offspring plants are tall?						
b) What is the % chance the offspring plants are short?						
2) Cross a rabbit who is heterozygous for short ears (Ee) with another rabbit who is heterozygous for short ears (Ee). Short ears (E) are dominant over long, floppy ears (e). What are the possible offspring from this cross?						
Genotype?						
Phenotype?						
a) What is the % chance the bunnies have short ears?	arang panggangan panggan					
b) What is the % chance the bunnies have long floppy ears?						
	- Commenter Inches					