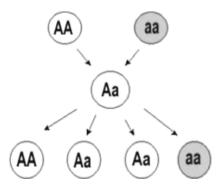
Date: _____ Hour: ____

- 1. Define genotype and phenotype:
- 2. Define genetics: _____
- 3. Define homozygous and heterozygous:
- 4. Define dominant and recessive: _____
- 5. Who founded the science of genetics?
- 6. Label the generations on the diagram below (P, F1, F2):



7. What type of plant did Mendel study?

8.	When there are two genes present, which trait is expressed?				
	O. Mendel's Law of Independent Assortment states that:				
	Mendel's Law of Segregation states that:				
11.	Draw a diagram which shows a pair of <u>homologous chromosomes</u> with <u>heterozygous alleles</u> :				
12.	If a black bunny (Bb) were crossed with a white bunny (bb), what would be the resulting phenotypic ratio of the offspring? Show a Punnett square to provide evidence:				
	Phenotypic ratios:				
3.	How is a Punnett Square set up?				
4.	are different versions of genes.				
5.	What is it called when there is a cross between hybrids for two traits:				
6.	If an organism has a dominant phenotype, how could you test for homozygous or heterozygous genotype?				

₹ 2	В	b
В	BB	Bb
b	Bb	bb

B = Black b = white

17	Using the Punnett Square above, predict the offspring's possible <i>genotype</i> percentages:			
	BB:	Bb:		
	bb:			
18	8. Using the Punnett Square above, predict the offspring's possible <i>phenotype</i> percentages:			
	Black:	white:		
19	In humans, free earlobes (E) are dominant over attached earlobes (e). In a cross between 2 parents heterozygous for free earlobes, predict the possible genotypes and phenotypes.			
	Genotypes:			
	Phenotypes :			
20.		ack coat color (B) is dominant over the allele for brown coat color (b) rabbit and a heterozygous black rabbit.		
	Genotypes:			
	Phenotypes:			