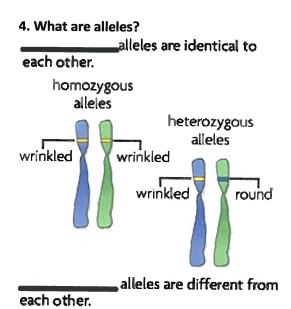
Genetics Fill-in Notes 6.4 Traits, Genes, and Alleles 1. Key Concept: Objectives: Have shounds 2. Vocabulary:

3. What are genes?



Notes: encode protein that produce a diverse range of traits. 2. Vocabulary ____: specific region of DNA that codes for a particular protein (pg. 180) _: any of the alternative forms of a gene that occurs at a specific place on a chromosome. (pg. 180) : characteristic of having two of the same alleles at the same locus of sister chromatids. (pg. 180) : characteristic of having two different alleles that appear at the same locus of sister chromatids. (pg. 180) : all of an organism's genetic material. (pg. 181) : collection of all of an organism's genetic information that codes for traits. (pg. 181) : collection of all of an organism's physical characteristics. (pg. 181) : allele that is expressed when two different alleles are present in an organism's genotype. (pg. 181) __: allele that is not expressed unless two copies are present in an organism's genotype. (pg. 181) 3. Genes position on a pair of homologous chromosomes

•	Α	is a piece of DNA that		
	directs a cell to make a certain protein			
•	Each gene has a	a specifi ِ		

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٠.	. Alleles				
•	Αı	n is any alternative form of a			
	ge	ene occurring at a specific locus on a chromosome.			
	0	Each parent donates one allele for every gene.			
	0	describes two			
		alleles that are the same at a specific locus			
	0	describes two			
		alleles that are different at a specific location			

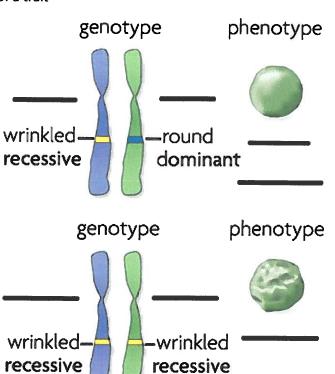
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5. \	Nna	RT IS	аe	enc	me?

5. Genome

•	All of an organism's genetic material is called the

- A ______ refers to the makeup of a specific set of genes
- A _______ is the physical expression of a trait

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6. What are Dominant and Recessive alleles?

6. Dominant and Recessive

- A ______ allele is expressed as a phenotype when at least _____ allele is dominant
- A ______ allele is expressed as a phenotype only when _____ copies are present
- Dominant alleles are represented by letters; recessive
- alleles by ______ letters

 Both _____ dominant and _____ genotypes yield a _____ phenotype.