

Cornell Notes

Topic / Objective: Genetics + Punnett Square / Name: Ms. H
 Show a punnett square phenotype and genotype of an offspring / Class / Period: 8A + 8B
 Date: W, 1. 15. 20

Essential Question: 1. What is heredity? 2. What is a gene?
 3. What is an allele? 4. How can a punnett square show offspring probability?

Questions:	Notes: <u>Key Points</u>	<u>Information</u>
• What is the difference between an allele expression and genotype expression?	Parent To Offspring	- Heredity: passing of traits to offspring - Alleles: are different versions of genes - Genes: a section on DNA that codes for a trait
• How is a dominant expressed w/in a genotype?	Gene Expression <u>Homozygous</u> same embryo (egg) Two SAME alleles (pure-bred)	- Dominant Allele: expressed allele -- strong (A - capital letter) - Recessive Allele: unexpressed allele -- weak (a - lower case)
• How is a recessive expressed w/in a genotype?	<u>Heterozygous</u> different embryo Two Different alleles (hybrid)	- Genotype: genes of an organism w/ two letters i.e. Aa - Phenotype: the physical appearance of a trait i.e. Brown eyes
• What is the understanding of traits passed from parent to offspring?		- Trait: physical appearance or condition that you see or know

Summary: