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| **Cornell Notes** | **Topic/Objective:** | | **Name:** |
| Heredity/ Genetics | | **Class/Period:** |
|  | | **Date:** |
| **Essential Question: - Where are genes located? Where do inherited traits come from?** | | | |
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| **Questions:** | | **Notes:** | |
| What are traits? | |  | |
|  | |  | |
| What are your traits | |  | |
| determined by? | |  | |
|  | |  | |
| What are genes? | |  | |
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| Where are genes located? | |  | |
|  | |  | |
| Where does your genetic | |  | |
| information come from? | |  | |
|  | |  | |
| Which cells have a full set | |  | |
| of chromosomes? | |  | |
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| Who is the “father of | |  | |
| genetics” and what did he | |  | |
| do? | |  | |
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| What are alleles? | |  | |
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| What are dominant alleles? | |  | |
|  | |  | |
| What represents dominant | |  | |
| alleles? | |  | |
|  | |  | |
| What are recessive alleles? | |  | |
|  | |  | |
| What represents recessive | |  | |
| alleles? | |  | |
|  | |  | |
| What is homozygous? | |  | |
|  | |  | |
|  | | Ex. | |
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| What is heterozygous? | |  | |
|  | |  | |
|  | | Ex. | |
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| What is genotype? | |  | |
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| What is phenotype? | |  | |
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| What is a Punnett Square? | |  | |
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| What does it show? | |  | |
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| Punnett Square Practice: | | tall plant (TT) x short plant (tt) | |
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|  | | Genotype: | |
|  | | Phenotype: | |
|  | |  | |
|  | | tall plant (Tt) x tall plant (Tt) | |
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|  | |  | |
|  | | Genotype: | |
|  | | Phenotyp: | |
|  | |  | |
|  | |  | |
|  | | tall plant (Tt) x tall plant (TT) | |
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|  | |  | |
|  | | Genotype: | |
|  | | Phenotype: | |
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| How do we determine | |  | |
| which allele is dominant? | |  | |
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| **Summary:** | | | |
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