Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Unit 7

Period: \_\_\_\_\_\_ Page: \_\_\_\_\_

**Unit 7 Map: Genetics**

Pre-AP Biology

|  |  |  |  |
| --- | --- | --- | --- |
| **Topic** | **Specific Learning Target** | **Quiz Score (%)** | **Test Score** (%) |
| 1. Mendel and Monohybrid Crosses | A. I can use basic genetics vocabulary (ex: genotype, phenotype, heterozygous, homozygous, dominant, recessive). |  |  |
| B. I can describe Mendel’s experiments. |
| C. I can use Punnett squares for basic monohybrid crosses. |
| D. I can use Punnett squares for unusual monohybrid crosses—incomplete dominance, codominance, and blood types.  |
| 2. Sex-Linkage and Dihybrid Crosses | E. I can use Punnett squares for crosses that involve sex linkage. |  |  |
| F. I can use Punnett squares for dihybrid crosses.  |
| 3. Pedigrees | G. I can analyze pedigrees to determine the type of inheritance for a trait—dominant, recessive, or sex-linked.  |  |  |
| H. I can create a pedigree given information about several generations of individuals.  |

**KEY TERMS:**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Genetics | Homozygous | Meiosis | P Generation | Probability | Multiple Alleles |
| Heredity | Heterozygous | Haploid | F1 Generation | Ratio | Sex-linked Traits |
| Trait | Purebred | Diploid | F2 Generation | Test Cross | Pedigree |
| Gene | Hybrid | Gamete | Self-Pollination | Codominance | X Chromosome |
| Allele | Genotype | Egg | Cross-Pollination | Law of Dominance | Y Chromosome |
| Dominant | Phenotype | Sperm | Monohybrid Cross | Law of Segregation | Genetic Variation |
| Recessive | Homologous Chromosomes | Gregor Mendel | Dihybrid Cross | Law of Independent Assortment | Incomplete Dominance |

