

# Biology I/Unit 5 Study Guide (Heredity)

## Study Objectives

1. Relate Mendel's laws of **segregation** and **independent assortment** to the behavior of chromosomes during meiosis.
2. Compare and contrast **patterns of inheritance** that do not follow Mendel's laws.
3. Predict probable outcomes of genetic crosses using the **Punnett square**.
4. Trace the inheritance of a genetic trait through the **pedigree** of a family.
5. Identify some **methods** used to determine the likelihood of a genetic disorder occurring in offspring.

## Vocabulary

pedigree polygenic traits codominance incomplete dominance trait hybrid pure-bred dominant trait recessive trait alleles homozygous heterozygous phenotype genotype heredity test cross x-linked traits sex influenced traits

## Assignments

- ✓ Read 9.1, 9.2, 12.2
- ✓ Notebook **10pts**
  - Notes on Study Objectives
  - "Wolf in the fold" (selective breeding)
  - Punnett Square Worksheet
  - Crossword/ Mendel Worksheet
- ✓ Lab: Monogenic Traits Study **10pts**
- ✓ Lab: Making a Pedigree **10pts**
- ✓ Quiz **15pts**
- ✓ Test **10pts**

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