

**Unit Planner**  
 Genetics

<b>Date</b>	<b>Day</b>	<b>Information Covered ~ Assignments ~ Homework Due</b>
Mon 2/27	A	Start Genetics Packet: Finish Vocabulary & Start Monohybrid Crosses  <b>HW: Chapter 11 Vocabulary – Sections 1, 2, 3, 5</b>
Tues 2/28	B	Finish Monohybrid, Dihybrid
Wed 2/29	C	Sex Determination, Sex Linkage, Blood Type
Fri 3/2	E	Probability WS (30)
Mon 3/5	F	Mitosis Lab (100)
Tues 3/6	G	Pedigrees, Chromosome Maps, Finish Genetics Packet, Pedigree Activity (30)
Thurs 3/8	A	Review, Quiz (75)
Fri 3/9	B	Jeopardy
Mon 3/12	C	Test on Genetics (200), Genetics Packet Due (100)

**Essential Questions:**

- What is the principle of dominance?
- What happens during segregation?
- What is the principle of independent assortment?
- How do geneticists use Punnett squares and the principles of probability?
- What inheritance patterns exist aside from simple dominance?

**Massachusetts Curriculum Frameworks:**

- 3.4 Distinguish among observed inheritance patterns caused by several types of genetic traits (dominant, recessive, codominant, sex-linked, polygenic, incomplete dominance, multiple alleles).
- 3.5 Describe how Mendel's laws of segregation and independent assortment can be observed through patterns of inheritance (e.g., dihybrid crosses).
- 3.6 Use a Punnett Square to determine the probabilities for genotype and phenotype combinations in monohybrid crosses.
- 4.6 Recognize that the sexual reproductive system allows organisms to produce offspring that receive half of their genetic information from their mother and half from their father, and that sexually produced offspring resemble, but are not identical to, either of their parents.