

## AP Biology Study Guide: Information 9- Mendelian Genetics Extensions

**Topic Presentation:**  
[click here](#)

**Textbook Reading:**

Chapter 8 (same as last study guide pages 144-160)

Strive for a 5 questions:  
no new strive this time

**Supplementary Resources:**

**“Crash Course: Biology” Videos:**

[Heredity: Biology #9](#)

**Videos By Paul Anderson:**

[“Advanced Genetics”](#)

[“Chromosomal Genetics”](#)

[“Blood Types”](#)

[“X Inactivation”](#)

**PDQ for Mendelian Genetics:**

1. Explain each of the following phenomena and how they extend our understanding of genetics from the work done by Gregor Mendel and classical Mendelian inheritance patterns. Provide a real-world example of each:
  - a. Incomplete Dominance
  - b. Co-Dominance
  - c. Pleiotropy
  - d. Epistasis
  - e. Polygenic Inheritance
  - f. Sex Linkage
  - g. Gene linkage
2. How was sex-linkage discovered?
3. Linked genes are usually inherited together, but not always. What circumstances can “unlink” genes?
4. How can linked genes be used to map the locations of genes on chromosomes?

**Things you should make sure you understand:**

**(feel free to ask questions about them in class)**

- Why fruit flies are a good model organism for genetic studies.
- The “nature vs. nurture” argument, and why it is a stupid argument to have

