



Mr. Silluzio
AP Biology Lesson Plan
Date:

Topic:

- **Eukaryote Chromosome Structure and Function.**
- **Chromosomal Mutations leading to various cancer.**
- **Cancers caused by chromosomal mutation**

- **Summary:** Students will construct a karyotype showing abnormal number of chromosomes or misshapen or broken chromosomes. The conditions caused by these karyotypes are unknown to students. Students use their knowledge of chromosomal mutations to research and identify the type of cancer that the karyotype will cause. Each of the four periods needed to complete this project will be split between research and individualized instruction focusing on both content and language and whole class advanced instruction. This project will extend into week 9.
- [Chromosomal Mutation Lab \(Karyotyping\)](#)
- [Rubric](#)

Goals/Objectives:

- Students will understand that chromosomes include DNA molecules and proteins.
- Understand that chromosomes are physically moved by specific chromosomes during cell reproduction.
- Understand that errors can occur during these processes and that sometimes these errors can result in chromosomal mutations.

Standards:

[Click here for corresponding learning standards](#)

Time Required: 4 80 minute periods

Prerequisite Knowledge:

Sophomore understanding of cell reproduction

Full understanding of instruction in lecture portion of this project.

Accommodations:

All notes and various enrichment materials are available on line.