



Mr. Silluzio
AP Biology Lesson Plan
Date:

Topic: Types and Functions of Proteins

Summary: Students are randomly assigned specific proteins to research and report their findings to their classmates in the form of a presentation. These proteins have been chosen for their high profile status to the biomedical science field. Students are provided with an [outline](#) for this initial research project. They will generate their own outline in all following research assignments.

Goals/Objectives:

- **Understand the similarities and vast differences in the structure and functioning of proteins.**
- **Understand that proteins and the genes that produce them are currently the a major focus of study in the biomedical field.**
- **Understand that even slight changes to a genetic sequence can have both negative and positive effects.**
- **Be able to differentiate between viral and cellular/host proteins in associated with the HIV virus.**

Standards:

[Corresponding Curriculum](#)

Time Required:

2 80 minute periods (time distributed over several periods)

Prerequisite Knowledge:

Basic understanding of gene translation, polymer/monomer models, hierarchy of protein structure and the induced fit model (enzymes).

Accommodations:

Notes, resources and enrichment material are available on a class webpage.