



Mr. Silluzio
AP Biology Lesson Plan
Date:

Topic: Cell Communication

Summary: Students will split time between the completion of the water potential (osmosis Part IV) lab and following whole class instruction on the response portion of signal transduction pathways. Also, will be given a task to solve several equations relevant to water potential.

Goals/Objectives:

- Understand that water potential considers both solute concentration and pressure.
- Understand the three steps of signal transduction: Reception, transduction and response.
- Understand that some chemical signals can move across the cell membrane unhindered by the hydrophobic region.
- Understand that cellular responses are vast and that some may occur in the cytoplasm or the nucleus (in proteins themselves or their synthesis)

Standards:

[Corresponding Curriculum](#)

Time Required:

1 80 minute periods

Homework: Read chapters 5 Campbell Biology in Focus.

Prerequisite Knowledge:

Prior unit: Full understanding of the structure of the cell membrane and all transport systems. .

Accommodations:

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