# Biology STEM-Based Lesson Plan

## Overview
- Students will learn to develop scientific arguments both for and against a current controversial topic in science. They will use facts to help support each position.

## Objective
- To teach students to develop a strong arguments either for or against a certain controversial topic in science. After being taught how to use Xtranormal and how to create effective arguments, student will create a three minute video with two characters debating the topic.

## Standards
- B.1 Principles of Biology
- B.2 Historical Perspectives of Biology

## Materials
- Notebook
- Pen or Pencil
- Textbook
- Computer Lab
- Xtranormal Account

## Procedure
- Show the students some topics in science that are controversial.
- Review the basic components of each topic.
- Have the students split up into groups of two or three.
- Have each group pick out a different topic.
- Teach the students how to create a video using Xtranormal.
- Have the students do some research on their given topics.
- Have the students create videos with two characters arguing the two different sides of the topic.

## Evaluation
- After being taught how to create strong scientific arguments, students should be able to create a video using Xtranormal in which the characters debate a topic. The video must be at least three minutes. The students must develop strong arguments for both sides of the topic.