Chafetz, Paul

APCS – Mrs. Sheikh

January 4, 2019

08.04 Discussion

**My Post**

Computer models are primarily used to analyze and comprehend a myriad of occurrences and events in the real world. One such major example of the use of computer modelling is in regards to climate change across the world over time. Climate predictors use computers to simulate climate changes and make analyses and predictions based on the results. Through extensive modeling, these simulations have created extremely detailed (and grim!) reports on the future climate with high levels of statistical confidence and accuracy. According to these models, the globe is heating up and the global climate is getting hotter. I believe that this is because of the greenhouse emissions like methane and carbon dioxide. Also, pollution and toxins are eroding our ozone layer and increasing UV radiation. Therefore, Earth is not only receiving more (and hotter) sunlight, but is more and more unable to expel the heat into the atmosphere. The simulations allow people to physically see the threat of climate change before it worsens. My governments, both local and state, have worked to lower emissions and the causes of climate change by limiting pollution and imposing environmental policies in our community. They employ scientists and data experts to simulate climate change and to help the governments enact laws and impose environmental legislation. The federal government used to also work towards this goal with the help of data scientists and computer modeling, however recent policy measures, such as eliminating the EPA and stopping the Paris Agreement, will only hinder anti-climate change efforts.

**Response to Julia Nguyen:**

Julia,

You are completely correct. Computers are extremely powerful in creating accurate and detailed models to describe the world around us. It'd be almost impossible to predict the climate of the entire world without a simulation! Even now, governments utilize models and scientific simulations in policy efforts and legislation.

**Response to Michael Fredock:**

Michael,

You are right when you emphasize the importance of climate change. The environmental consequences of the rising temperatures and man-made activities are destroying huge chunks of natural land and wildlife. Models are very important in giving people knowledge and information about the impending future and the best routes to solve the issues. However, I disagree when you say the governments are doing too little. There are countless environmental policies in place and many people have encouraged legislation in cutting emissions and pollution. The current administration isn't very faithful to those claims now, but previous politicians have done a lot in regard to climate change.