

Team Number: MCS158

School Name: McCurdy Charter School

Area of Science: Environmental Science

Project Title: Climate Change in NM

#### Problem Definition:

Throughout the years there has been a significant increase in temperature all over the world. Not only have that but the changing temperatures also caused some unusual weather behavior in certain parts of the world as well. While some people still argue against the idea that our pollution of the atmosphere had anything to do with the issues we are now facing today, it has become increasingly evident that there is a link between the two.

#### Problem Solution:

The solution for this problem is a very simple one. All we need to do is stop, or at least slow down, the consumption of fossil fuels. People are already attempting to make more green products in order to help better the world. However, even if we do this, it can take many years for the many holes in the ozone to be completely filled in. However, it can be done. Scientists have already seen that the largest hole in the arctic is showing its first signs of repair ever. This is probably due to the ban on certain earth-harming products, the reduced usage of fossil fuels, and the many companies trying to look for more alternative methods of fuel.

#### Progress to Date:

Currently on our project we have been working with the climate change model on NetLogo. We plan on changing the model in order to make it more realistic to our world and also to have two separate hemispheres in order to represent the damage in both the north and the south Hemispheres in our world.

#### Expected Results:

Apart from our idea of having two different hemispheres, we also plan on adding different types of pollution to our atmosphere. Currently the program only has a setting for carbon dioxide. We also plan on incorporating a sun into the program that can change positions as time moves on, as well as change the sun's intensity as it makes its cycle around the day.