Congratulations. You are now in charge of the world. Genetic engineering has been perfected in such a way that makes almost anything possible. Applications abound and the possibilities are limitless:

\*Agriculture – bigger, better animals, better crops, grow crops anywhere, destroy pests.

\*Animals – clone endangered species, bring back extinct species.

\*Military/crime – enhance soldiers, better police protection, more knowledge about

identity, genetically enhanced weapons.

\*Medical – get rid of diseases, screen embryo’s, increase life expectancy.

\*Personal – select physical traits, “fix” undesirable traits, increase talent

\*Other?

Knowing that the options are almost limitless, and that you are in charge, put together an assessment of a potential technology:

\*Select an application of genetic engineering

\*Explain the application, where we stand as of today, where it could go.

\*Pros and cons of this application

\*Your stance/position – should we or shouldn’t we pursue this? Why?

\*What issues were most important in this conclusion?

Students will research this topic and turn in a final project that covers the above points. This should be in be in some form of visual display – It could be a poster board, but there are other options as well. Use your imagination.

The Project will be worth 50 pts (25 points on scientific thinking, 25 points on content – like a test). The project will be assessed based on:

* Content
* Accuracy
* Visual
* Clarity
* Creative

A few sources about some of the Genetic Engineering technologies (there are many more out there):

\* PCR - <http://www.youtube.com/watch?v=2KoLnIwoZKU&feature=related>

\* Transgenic organisms - <http://www.youtube.com/watch?v=TpmNfv1jKuA>

\* Cloning - <http://www.youtube.com/watch?v=7tbxN5uwaqA&feature=related>

**\*** Cloned Cat - <http://www.youtube.com/watch?v=k_Z6M3mDt9Q>

\* Synthetic Biology - <http://syntheticbiology.org/FAQ.html>

\*Applications of Genetic Tech. - <https://www.youtube.com/watch?v=YKEujZ1j5B8>