**Researching Genetic Engineering**

Humans have been manipulating the genetic make-up of living organisms for thousands of years. Selective breeding has led to agricultural revolutions that helped to fuel the growth of many cultures around the world. Almost all livestock that are raised for meat, fur or milk were developed through manipulation of the genetic stock. More recently the advancements in the field of biotechnology have allowed scientists to insert genes into bacteria to produce medicine and food sources so the altered DNA produces new proteins that lead to new characteristics such as pest resistance or better flavor. Many scientists hope that we may one day be able to manipulate the genes to help to cure human genetic diseases.

**Objective:**

You will write a **three page paper** on one of the following three topics. You must sign up for one of the three topics as the topics will be evenly split among the class.

1. Selective Breeding
2. Transgenic Organisms (GMOs)
3. Cloning

**Paper Components:**

Your paper should include an *introduction to the topic*, a consideration of the *pros and cons associated with the topic* and a final paragraph with your *personal opinion* on the topic. All sources should be cited parenthetically in the text and a list of those sources should be included and properly formatted on a final page.

Your **introduction** should provide the reader a solid understanding of your topic and should be 2 – 3 paragraphs in length.

Consideration of the **pros** and **cons** should be 1-2 paragraphs each. Your treatment of this section should be unbiased and should consider both sides of the arguments whether you agree with them or not.

The **personal opinion** section should be reflective and should include your learning experiences while researching your topic. This should be a thoughtful reflection and should be a paragraph in length.

You must include a list of **no less than 5 sources** used to develop your paper. Remember to consider the credibility of your sources when developing your paper. Websites that end in a “.gov” or a “.edu” are your most credible sources. You should be wary of “.org” and check the reputation before you use the source. **In most instances “.com” is unacceptable as a source**.

**Format:**

 Pages: 2 body pages, 1 sources page

 Font: Verdana, 11 pt

 Margins: 1 inch on all sides

 Spacing: 2.0 spacing

**Due:** Monday June 2, 2014 to Mrs. Fried, through Outlook

**File Name Format:** LastName Genetics Research