Chapter 5: Genetic Disorder Project

For the chapter 5 project you will be researching a specific genetic disorder, a genetic disorder is a disease that is caused by an abnormality in an individual’s DNA. Below you will find the directions for the project, the due dates, and a grading rubric. If you have questions while working on your project make sure to ask before the project is due.

Project Directions:

Part #1 - Research
IN YOUR OWN WORDS, using complete sentences, paragraph style, summarize the information you have found in pages on your Ipad. Be complete and thorough. The information you report here is the body of your power point or poster. This information must be complete before you can start on your power point or poster. A very helpful website for your project will be: [http://ghr.nlm.nih.gov/BrowseConditions](http://ghr.nlm.nih.gov/BrowseConditions).

1. What is the name of the disorder that you are researching?

2. In great detail, describe the symptoms of the disorder.

3. How common is the genetic disorder (example: 1 in 100,000)

4. Describe how the disorder is inherited. Is it a recessive or dominant trait? Which chromosome is the gene for the disorder located on? Is this disorder more likely to occur in certain populations? Are there environmental factors or influences? Some of this information might not be available for the disorder you are researching. Include any other interesting facts that you learned about the disorder.

5. Describe any treatment that might be available for the disorder you are researching. What is the status of research on the disease? This information could also include therapy or ways the individual with the disorder adapts.

6. Give an example of how you could use genetic engineering to cure this genetic disorder (be specific.)

7. Make a drawing of how the disorder is inherited (such as a Punnett square or pedigree); write a brief description of it so it can be understood.

8. List your sources, where you got your information from.
Part #2- Format your Presentation

Once you have found your information you need to decide which format you would like to use to present it. You have 2 choices, either a poster, or a keynote, each are worth the same amount of points. If there is another way in which you would like to present your information, please get it approved before you start.

Part #3- Presentation

You will give a short presentation to class about your genetic disorder and the research you have done. The date of the presentation is listed below.

Project Dates:
Introduction of project: Thursday November 29th and Friday November 30th

Project Part #1 due written or typed: Wednesday December 5th and Thursday December 6th

Completed projects due and presentation of projects: Friday December 7th and Monday December 10th.

Rubric:
Part #1:
1. Information for questions 1-7 (accuracy, length, etc…)- 38 points
2. Reliable Sources (question #8)- 2 points
3. Questions are completed on time- 5 points

Part #2:
1. Keynote/poster (well formatted, layout, information makes sense, completed on time, etc…)- 20 points
2. Includes at least 2 pictures- 4 points
3. Spelling/grammar- 5 points

Part #3:
1. Presentation (well prepared, speaks loudly, eye contact, presented on time, etc…)- 10 points

Total Points Possible: 84 points