Genetics Project

**Due on Monday, May 2nd**

Project topics to pick from:

1. Pick a disorder that has been helped using stem cell research, describe the disorder, give the latest research and explain how stem cells have played a role in the treatment.

2. Pick a type of cancer, describe how the cancer forms and what parts of the body are affected, give the latest research and include the treatment methods used to stop the cancer.

3. Pick a genetic disorder that is caused by a DNA mutation or a chromosomal mutation (you cannot choose sickle cell), describe the genetic disorder and include the treatment methods used to help with the effects of the disorder.

Each student will turn in two topics of interest on Monday, April 18th. You will need to write your topics on an index card. On each side of the card give the name of the topic, a description of what you plan to present (3-4 sentences) and one source you have found and used. After reviewing the topic choices, making sure that we do not have duplicates, I will let you know what topic you can do your presentation on.

Once you topic has been decided:

1. You need to have at least two sources for extended research (you need to cite your resources in MLA format)
2. You need to turn in research notes. Your notes should contain **detailed** research on your topic. They should be hand written, 1 full page (front and back), and single spaced.
3. You need to create something that you will use to present your topic such as; Google slides, Piktochart, Adobe slate and Popplet. If you choose to use another type of presentation tool (other than the options above), you must clear it with the teacher first.
4. You will present your project to the class.

**Honors Level Work** would include the following:

* You should have between 5 and 10 slides
* Include materials listed above in the project topic descriptions, but also include additional information like interesting facts
* Include pictures and diagrams on your slides
* Slides should not have long paragraphs of information, they should have short informative bullet points that you can elaborate on during your presentation
* When you present, you should know the material well enough to address the classroom and not read off the slides
* Your research notes should not be identical to your presentation, nor should they be copied and pasted from you sources

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|  | Great | Good | Needs Improvement |
| Topic | Turned in 2 topic choices on time in the correct format(10 pts) | Turned in 1 topic choices on time and in the correct format(5 pts) | Turned in 1 topic choice on time and it was not in the correct format(0 pts) |
| Sources | 2 sources with correct citation(10 pts) | 1-2 sources not fully cited(5 pts) | No sources(0 pts) |
| Research notes | Took a sufficient amount of notes during their research and turned them in(10 pts) | Took a small amount of notes during their research and turned them in(5 pts) | Did not take notes during their research (0 pts) |
| Project | Created a well-developed, clear product that looks like honors work(40 pts) | Created a product that was not well developed/ clear or does not look like honors work(20 pts) | Did not create a product that was well developed/ clear and does not look like honors work(0 pts) |
| Presentation | Participated, were prepared, and spoke clearly during the presentation(30 pts) | Did not do one of the following:Participate, prepared and spoke clearly during the presentation(15 pts) | Did not do any of the following:Participate, prepared and spoke clearly(0 pts) |