

Research Presentation: Genetic Disorders

Project due date: _____

Introduction:

Disorders, or diseases, manifest themselves in different ways, but for this project you will research a disorder that is genetic in origin and report your findings in a Google slides presentation.

Objectives:

- a) TLW research a genetic disorder.
- b) TLW practice reporting information in a poster presentation format as is commonly done in college- and university-level science classes.

Procedure:

1. Choose a genetic disorder from the list below:
 - **Hemophilia**
 - **Tay-Sachs disease**
 - **cri du chat**
 - **cystic fibrosis**
 - **achondroplasia**
 - **Huntington's disease**
 - **Klinefelter syndrome**
 - **fragile X**
 - **Downs syndrome**
 - **Turner syndrome**
 - **Prader-Willi syndrome/Angel man syndrome**
2. Verify your topic choice with your teacher.
3. Find out everything that you can about your topic, using a minimum of three reliable online sources. No Wikipedia.
4. You will create a Google slides presentation of your chosen disorder that covers the following topics. If there are other important issues associated with your chosen disorder that are not listed below, then include those as well. Have at least three visual aids accompany your presentation.
 - a. What is the genotype of this disorder?
 - b. What is happening with the DNA to cause these phenotypic effects?
 - c. What are the phenotypic effects of this disorder?
 - d. How is this disorder inherited?
 - e. Are there carrier forms and/or lethal forms of this disorder?
 - f. How can this disorder be treated?
 - g. How can this disorder be avoided?
 - h. Discuss any current research being done on this disorder.
 - i. Create a genetics problem where students will have to draw a Punnett square and pedigree.
5. Do not forget a cover page which will include group names and the name of your disorder.
6. You must cite your resources using MLA format.