

Genetic Disorders: Project Information Sheet

For this project you will be investigating a genetic disorder. You will be able to choose which genetic disorder you will research. Your choice should be submitted to the teacher by the end of the class period.

Examples of genetic disorders to investigate include, but are not limited to:

Hemophilia	Cystic Fibrosis	Phenylketonuria (PKU)
Huntington's Disease	Sickle Cell Anemia	Tay-Sachs Disease
Cri du Chat	Down Syndrome	Turner Syndrome
Marfan Syndrome	Klinefelter's Syndrome	Patau's Syndrome
Edward's Syndrome	Achondroplasia	

Part I: The Project You will research your genetic disorder. You will present this information in the format of your choice. For example, you may choose to create an informational brochure, write a paper, construct a poster, put together a PowerPoint presentation, write a magazine article, etc. You must submit your project idea for teacher approval prior to completing it.

The DUE DATE for your project idea is _____

The DUE DATE for your project is _____

Part II: Presentation To present your project, you will be expected to prepare a presentation for your class. The presentation must be at least 3 minutes, and no longer than 5 minutes in length.

Your PRESENTATION date is _____

Questions to consider in your research:

- What is the disease?
- How is it inherited? Is it a chromosomal disorder, or Is it sex-linked, or is it dominant/recessive?
- What causes it?
- What are the symptoms? Is it lethal?
- How is it treated?
- Is there a population that is most greatly effected?
- What is the history of the disease?
- How does this disease affect society?
- Are there any new scientific advances used to fight the disease?
- Interesting facts: Famous people who have the disease, etc.

Some helpful websites:

- http://kidshealth.org/teen/your_body/health_basics/genes_genetic_disorders.html
- <http://gslc.genetics.utah.edu/units/disorders/whataregd/>
- <http://www.ygyh.org/>

Genetic Disorders: Evaluation Rubric

	Criteria	Points Possible	Points Earned	
			Student Self Assessment	Teacher's Assessment
Project		60 points		
Presentation of Information	Information is clearly presented.	4		
	Information is organized in an easy-to-follow manner	6		
	The project is creative and pleasing to the eye	6		
	Illustrations, graphics, pictures, and/or figures are included	4		
Quality of Information	Overall, the information included in the project is of high quality (accurate and well explained)	6		
	The disease and its symptoms are explained.	6		
	Method of inheritance is identified	4		
	The cause of the disease (what the genetic abnormality causes) is explained	4		
	Treatment for the disease is discussed	4		
	Brief history of disease is provided	4		
	Current developments are discussed	4		
Technical Details	Topic, Project idea, and Project are turned in on time	4		
	Grammar is correct	4		
Presentation		40 points		
Presentation of Information	Student presents disease information and project in a clear and interesting manner	5		
	Presentation is organized, and information is smoothly transmitted.	5		
Quality of information	Student highlights key components of their disease, including: cause, method of inheritance, symptoms, treatment, and current developments.	15		
	Project is displayed and explained for class	5		
Technical Details	Presentation is within the 3-5 minute timeframe	5		
	Student comes prepared to present on the day indicated	5		

Student Comments: _____

Teacher Comments: _____

