**Genetic Disorder Project Presentation DUE: Monday February 4th**

You have already completed your basic study about the ideas of genetics and mutations. Now with the information that you have you are being asked to research a specific genetic disorder and give an oral presentation along with creating either a PowerPoint or poster to explain the genetic disorder.

**List of Genetic Disorders**

|  |  |
| --- | --- |
| * Alzheimer’s Disease
* Angelman Syndrome/ Prader-Willi Syndrome
* Celiac Disease
* Congenital insensitivity to pain (CIPA)
* Cri du chat Syndrome
* Cystic Fibrosis
* Diabetes, type 1 and Type 2
* Down Syndrome (*Trisomy 21*)
* Duchenne & Becker Muscular Dystrophy
* Epidermolysis Bullosa
* Hemophilia
 | * Huntington’s Disease
* Klinefelter Syndrome
* Osteogenesis Imperfecta
* Parkinson’s Disease
* Phenylketonuria (*PKU*)
* Progeria
* Polycystic Kidney Disease
* Sickle Cell Anemia
* Sirenomelia
* Tay-Sachs Disease
* Turner’s Syndrome
 |

**Part 1: Research**

* Students may work on their own or with one partner of their choosing.
* Groups will research one of the topics above. Students working alone will have first pick of their topic.
* Groups will complete the research form with all relevant information about their topic.

**Part 2: Visual Representation**

* Creatively and CLEARLY display the following in your chosen presentation mode:
	+ Your group’s genetic disorder
	+ Pictures, Comics, Symbols, etc.
	+ Essential Bulleted Information
	+ Group member’s names displayed
* This will be graded on the following:
	+ Completeness/Including all questions on research form
	+ Creativity/Appeal
	+ Accuracy of information/content
	+ Mechanics (spelling, errors)
	+ Organization

**Part 3: Works Cited page using MLA formatting**

Each group is required complete one Works Cited page including **at least three sources** used to prepare presentation. Your Works Cited must be displayed on your visual representation. And must be in MLA format.

|  |  |
| --- | --- |
| Definition of the disorder * What happens to the body?
* What part of the body does it generally affect?
 |  |
| History of the Disorder* What is the history behind the disorder?
* Who discovered it or/and who have done research on the disease?
 |  |
| Description of the symptoms* List all of the possible effects on the body
* What is the average lifespan of a person with this disorder?
 |  |
| How many and what type of people are likely to have the disorder* Is it more common in a certain group of people?
* How common is it?
 |  |
| Cause of the disorder* What happens in the body to cause the disease?
* Is it a mutation? A genetic tendency triggered by other factors?
 |  |
| How the disorder is inherited* Is it sex-linked?
* Is there a particular chromosome it is located on?
* Is it recessive or dominant?
 |  |
| How the disorder is diagnosed* What tests are done?
* Is genetic counseling an option?
* What is the life span of someone with the disease?
 |  |
| Interesting Facts* Treatment failures, cost of treatment, prevalence, or advantages to having the disease….

If you properly researched you will have something interesting! |  |

**Genetic Disorder Research Form**

**Genetic Disorder Rubric Names: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

|  |  |  |
| --- | --- | --- |
| **Presentation Requirements** | **Possible Points** | **Earned Points** |
| Introduction | 2 |  |
| Definition of the disorder  | 3 |  |
| History of the Disorder | 3 |  |
| Description of the symptoms | 3 |  |
| Cause of the disorder | 3 |  |
| How the disorder is inherited | 3 |  |
| How many and what type of people are likely to have the disorder | 3 |  |
| How the disorder is diagnosed | 3 |  |
| Interesting Facts | 3 |  |
| Works Cited | 3 |  |
| Presentation is creative and organized. Presenters speak clearly and are knowledgeable about the topic | 5 |  |
| **Total Points Earned** | **40** |  |

Comments:

**Genetic Disorder Rubric Names: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

|  |  |  |
| --- | --- | --- |
| **Presentation Requirements** | **Possible Points** | **Earned Points** |
| Introduction | 2 |  |
| Definition of the disorder  | 3 |  |
| History of the Disorder | 3 |  |
| Description of the symptoms | 3 |  |
| Cause of the disorder | 3 |  |
| How the disorder is inherited | 3 |  |
| How many and what type of people are likely to have the disorder | 3 |  |
| How the disorder is diagnosed | 3 |  |
| Interesting Facts | 3 |  |
| Works Cited | 3 |  |
| Presentation is creative and organized. Presenters speak clearly and are knowledgeable about the topic | 5 |  |
| **Total Points Earned** | **40** |  |

Comments: