**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: