**Genetic Disorders Project**

If Mendel were to pick up a daily newspaper in any country today, he would probably be surprised. News articles about the developments in genetic research appear almost daily. The term gene has become a household word. Through the study of genetics many disorders such as sickle cell anemia, cystic fibrosis, and hemophilia can be detected, treated and possibly, in the near future, they can be cured.

**Due Date:** Thursday, April 3rd

**Your assignment:**

Research one of the following disorders and create an informative brochure

explaining what the disease it, the cause, symptoms, incidence, detection, and treatment (if available).

**Possible Genetic Disorders: (You will pick from a HAT ☺ )**

Sickle cell anemia

Cystic fibrosis

Hemophilia

Huntington’s disease

PKU

Tay-Sachs

Achondroplasia

Polydactyl

Albinism

Color blindness

Alzheimer’s

Muscular Dystrophy

Down’s Syndrome

Turner’s Syndrome

Marfan Syndrome

Fragile X

\*\*\*See me if there is a different disease that you would like to research\*\*\*

**How to create a Brochure Instructions ON Computer :**

* <http://www.officearticles.com/tutorials/create_a_tri-fold_brochure_in_microsoft_word.htm>
* <http://www.wikihow.com/Create-Brochures-Using-Microsoft-Publisher>

**Requirements:**

* You may use Publisher or hand make your brochure but it must be typed.
* Be sure to answer all questions.
* Use pictures and color.
* Write as much of the information as you can in your own words.
* Check for accuracy, spelling, grammar, punctuation, etc.
* You must include a list of your sources.
* Do your best!!!

## Brochure Rubric

## Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | **5** | **4** | **3** | **2** | **1** | **0** |
| Content (2x)  * What is it? * Cause * Symptoms * Detection/Tests * Incidence * Treatment |  |  |  |  |  |  |
| Preparation  * Correct spelling and grammar * Interesting facts/extra info |  |  |  |  |  |  |
| Visual Presentation  * Is it neat (typed)? * Are sections clearly labeled? * Is it organized? * Is it appealing to look at? (colorful, pictures) |  |  |  |  |  |  |
| Bibliography  * Did you list your sources of information? * Did you put your research into your own words? |  |  |  |  |  |  |

**Total points: \_\_\_\_\_\_\_**

**Grade: \_\_\_\_\_\_\_**

**Comments:**

**Questions to Research**

**Question Answer**

|  |  |
| --- | --- |
| **What is it?** |  |
| **What causes this disease?**   * dominant or recessive, extra chromosome, sex linked, mutation on a specific chromosome or gene, etc. |  |
| **What are the symptoms?**   * coughing, loss of muscle, bleeding, extra fingers, etc. |  |
| **Incidence**   * How many people have it? 1/1,000, etc * Is it more common in a certain race or ethnicity? |  |
| **Detection/Diagnosis**   * How do they know if someone has this disease? Blood tests, symptoms, karyotypes, etc. |  |
| **Treatment/Cure**   * Are there any medicines or therapies that can help the symptoms of this disease? |  |
| **Extra/ Interesting Info**   * Does anyone famous have it? * Who discovered it? |  |
| **Sources**   * What books, magazines, websites, etc. did you use to get your information? |  |