Research a genetic disease or disorder.

Create a public service brochure or pamphlet on the genetic disorder using Microsoft Publisher.

The following information should be included:

- Name of Genetic Disease/Disorder
- Pictures of individuals with the disease/disorder and or other graphics.
- What are the symptoms of the disease/disorder?
- Are there stages to the disease that are characteristic of the disease/disorder?
- Biochemistry of disease/disorder. How does the disorder cause the disease/disorder? For example, is it caused by a faulty enzyme, lack of a specific protein, ... etc.
- What is the inheritance pattern for the disease/disorder? (mutation, non-disjunction, autosomal dominant, autosomal recessive, sex-linked dominant, sex-linked recessive)
- How is the disease/disorder diagnosed?
- Is genetic testing available?
- What treatment is available?
- Some type of pedigree showing the inheritance pattern or Karyotype showing non-disjunction or other mutation.
- List of helpful resources for individuals with the disorder.
- MLA citation

Please keep wording to a minimum. This is not an essay!!!

Bullets work fine for listing symptoms.

Your Genetic Disease/Disorder is:

________________________________________________________________________

Inheritance Pattern: _______________________________________________________

Due Date: __________________________________________________________________
List of Genetic Diseases/Disorders

Autosomal Dominant
- Achondroplasia
- Neurofibromatosis
- Noonan Syndrome
- Osteogenesis Imperfecta
- Costello Syndrome
- Huntington's Disease
- Tuberous Sclerosis

Autosomal Recessive
- Albinism
- Phenylketonuria (PKU)
- Maple Syrup Urine Disease
- Sickle Cell Anemia
- Bloom Syndrome
- Cystic Fibrosis
- Fanconi Anemia
- Severe Combined Immunodeficiency (SCID)
- Hurler's Syndrome
- Tay-Sachs Disease
- Alkaptonuria

X Linked
- Rett Syndrome
- Barth Syndrome
- Hemophilia
- Fabry's Disease
- Hunter's Syndrome
- Lesch-Nyhan Syndrome
- Duscheine Muscular Dystrophy

Non-disjunction
- Klinefelter's Syndrome
- Turner's Syndrome
- Patau's Syndrome
- Edward's Syndrome
- Down Syndrome

Mutation
- Prader-Willi Syndrome
- Cri-du Chat Syndrome
- Angelman Syndrome
- Progeria
### Inside Panel

**Inheritance Pattern**
- Autosomal Dominant
- Autosomal Recessive
- Sex linked (X linked)
- Non-disjunction (trisomy)
- Mutation – Deletion, Addition

**Pedigree**
(autosomal or X linked)

**Karyotype**
(Non-disjunction, mutation)

(5 points)

### Back Panel

**MLA Citations**
Including websites and pictures

### Front Panel

**Name of Disease/Disorder**

**Picture of individual with disorder**

**Biology**
Mrs.
Date

(5 points)

(5 points)

### Side 2

**Inside Panel**

**Symptoms/Stages**

(5 points)

**Inside Panel**

**Biochemistry of Disease/Disorder**

(5 points)

**Inside Panel**

**Treatment – Therapy**

(5 points)

**Diagnosis - Genetic Testing**

Helpful Resources
- Support groups
- Websites

(5 points)

### Neatness, thorough, accurate, easy to understand, informative (10 points)

Grade: ________/40
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Genetic Disease Research Notes
Put research into your OWN words!

Due: __________________________

Disease Assigned: __________________________

1. How is your disease inherited?
   - Autosomal Dominant?
   - Autosomal Recessive?
   - Sex Linked (X-linked)
   - Nondisjunction
   - Mutation (Deletion, Addition, Substitution?)

Website: ______________________________________

2. If your disease is autosomal or sex linked, find a pedigree of a family that has this trait.
   If your disease is due to nondisjunction or a mutation include a karyotype of an individual with the disease.

Website: ______________________________________

3. List the symptoms of this disease.

Website: ______________________________________

4. Does this disease present in stages? If so list the stages:

Website: ______________________________________

Website:

6. What is the treatment/therapy for this disease?

Website:

7. How is this disease diagnosed? What type of genetic testing is done?

Website:

8. Helpful Resources; Find at least 3 support groups/websites for someone who has this disease or wants information.
   1. 
   2. 
   3.