

Biology 1
**Genetic Disorder BROCHURE
Project**

Name:
Date:
Hour:

For this project, you will become the expert on a particular genetic disorder. You are charged with the task of completing a 6-page (tri-fold) brochure about the genetic disorder that contains the following information. You will construct your brochure out of a regular sheet of construction paper that has been folded into thirds or you can use a template in a word processing program. **Keep in mind that the brochure's intended audience is your class; therefore the information should be at a grade appropriate level.** Also, brochures are **short but to the point**. Your focus should be on putting only relevant information into the brochure since space is limited.

Page 1 - Title/Cover Page (5pts)

- Must include -
- *name of disorder
 - *author name
 - *picture with caption
 - *tag-line (statement that will make someone want to read the pamphlet)

Page 2 - "Symptoms/Effects" (5pts)

- Must include -
- *What physical/mental symptoms do individuals with this trait display?

Page 3 - "Explaining the Disorder" (10pts)

- Must include -
- *What are the causes of the symptoms/problems associated with the disorder?
 - *How long has the disorder been documented for?
 - *Is there a story and/or a person involved in the classification of this disorder?
 - *statistics related to number of individuals with disorder and chance of inheriting the disorder

Page 4 - "Mode of Inheritance" (10pts)

- Must include -
- *mode of inheritance (autosomal/sex-linked, dominant/recessive/random mutation)
 - *where is the gene located (if known/applicable)
 - *chance of inheritance (given in context of entire population AND within the family)

Page 5 - "Treatment" (5pts)

- Must include -
- * treatments and effectiveness
 - *current issues in research relevant to the disorder
- NOTE: Treatment for the disorder means affecting the symptoms to help afflicted individuals have a better quality of life. It does not mean curing the afflicted of the disorder.

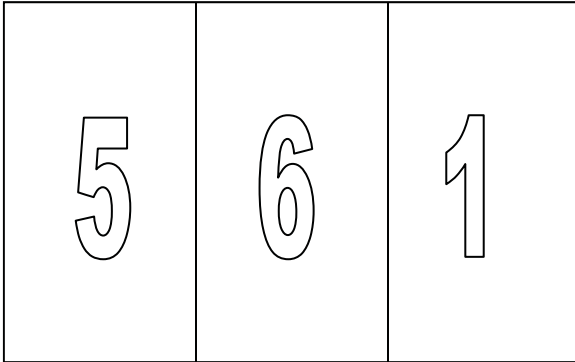
Page 6 - "Resources" (5pts)

- Must include -
- *at least one source of information people can go to for help/information about dealing with the disorder
 - *list the three (minimum) reputable sources that you used

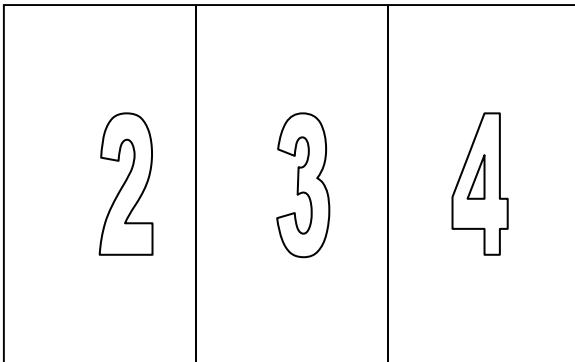


Your Paper (before folding) -

Front (Outside)



Back (Inside)



Remember: Plagiarism is not acceptable!

Disorders:

- Adrenoleukodystrophy
- Adult Polycystic Kidney Disease
- Achromatopsia
- Achondroplasia
- Albinism (&Hypopigmentation)
- Ataxia Telangiectasia
- Alopecia Areata
- Angelman Syndrome
- Bloom Syndrome
- Brachydactyly
- Camptodactyly
- Cleft Lip/Palate
- Color Blindness (Green and or Red)
- Cri-du-chat Syndrome

- Crouzon Syndrome
- Cystic Fibrosis
- Downs Syndrome (Trisomy 21)
- Edwards Syndrome (Trisomy 18)
- Ehlers-Danlos Syndrome
- Fabry Disease
- Family Hypercholesterolemia
- Franconi Syndrome
- Fragile X Syndrome
- Galactosemia
- Glucose-6-phosphate dehydrogenase deficiency
- Hemophilia (A and or B)
- Huntington Disease
- Hypercalcemia
- Ichthyosis
- Kearns-Sayre Syndrome
- Klinefelter Syndrome
- Leber Optic Atrophy
- Lesch-Nyhan Syndrome
- Marfan Syndrome
- MELAS Syndrome
- MERRF Syndrome
- Moebius Syndrome
- Muscular Dystrophy
- Nager & Miller Syndromes
- Nail Patella Syndrome
- Narcolepsy
- Neurofibromatosis
- Oncocytoma
- Patau Syndrome (Trisomy 13)
- Phenylketonuria (PKU)
- Polydactyly
- Porphyria
- Prader-Willi Syndrome
- Progeria
- Proteus Syndrome
- Retinoblastoma
- Sickle Cell Anemia
- Spina Bifida (myelomeningocele)
- Tay-Sachs Disease
- Tetraploidy
- Thalassemia
- Triploidy
- Tourette Syndrome
- Turner Syndrome
- Williams Syndrome
- Xeroderma Pigmentosum

***You may also choose a disorder not found on this list.**