HUMAN GENETIC DISORDER PROJECT

You have received the name of a specific human genetic disorder. Your task is to

1. *Research information and personal testimonies to learn about your assigned genetic disorder*
2. *Create a Google Slides presentation to organize and present your researched information*
3. *Record and post a 3-5 minute video that teaches your classmates about your assigned genetic disorder*

Your presentation must include the following information:

1) Your name and the name of the disorder

2) What is this disorder?
   - What are the characteristics and symptoms?

3) What causes this disorder?
   - What is the genetic cause?
     - Chromosome mutation: include the type of mutation (deletion, trisomy, monosomy, etc.), chromosome number, and a picture of the karyotype showing the mutation
     - Gene mutation: include the gene affected, how the gene is changed, and what the protein the gene codes for does (relate back to the symptoms if applicable)
   - How is it inherited?
     - Spontaneous mutation?
     - Autosomal or sex-linked?
     - Recessive, dominant, etc.

4) How common is this disorder?
   - Incidence: What portion of human population is affected by disorder?
   - Prevalence: Is any particular segment of the population at greater risk (gender, ethnicity, etc.)? Why?

5) How is the disorder diagnosed?
   - Why would someone get tested for this disorder?
   - When is it tested for (prenatal, infancy, adult)?
   - How is it tested for? What tests are used and what does is show or look for?

6) What treatments are available for this disorder and its symptoms?
   - Medications, procedures, therapies, support

7) What is the prognosis?
   - What is the life expectancy for individuals with this disorder?
   - What current research is being done to develop a cure? Give a brief summary of who, where and what.

Your presentation must be of professional quality.

- Each slide must have short, bulleted text that you will explain and add to through your video commentary.
- Each slide must have graphics and pictures that are appropriate and **<u>support the information</u>**.
- Each slide must show creative effort with the use of backgrounds, fonts, and colors

Your presentation must show proper digital citizenship.

- Turn in a Works Cited page with this rubric. Include the MLA citation for each and every source used for the information and graphics included on the slide. Separate the citations as picture citations or text citations.
- You may NOT use Wikipedia, other wiki or answer sites, or dictionary.com as a source for text, but may use them for pictures.

To submit your presentation, see your teacher for submission instructions.

Name _____ **Disorder** _____

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Characteristics	Includes all required information and covers the topic completely and in depth. Clear evidence that higher level thinking skills were used. Graphics used to support the information.	Missing one section of content or content not covered in depth.	Missing 2 sections of required content.	Missing 3 or more sections of required content.	x2	
Genetics	Includes all required information and covers the topic completely and in depth. Clear evidence that higher level thinking skills were used. Graphics used to support the information.	Missing one section of content or content not covered in depth.	Missing 2 sections of required content.	Missing 3 or more sections of required content.	x2	
Statistics	Includes all required information and covers the topic completely and in depth. Clear evidence that higher level thinking skills were used. Graphics used to support the information.	Missing one section of content or content not covered in depth.	Missing 2 sections of required content.	Missing 3 or more sections of required content.	x2	
Diagnosis	Includes all required information and covers the topic completely and in depth. Clear evidence that higher level thinking skills were used. Graphics used to support the information.	Missing one section of content or content not covered in depth.	Missing 2 sections of required content.	Missing 3 or more sections of required content.	x2	
Treatment	Includes all required information and covers the topic completely and in depth. Clear evidence that higher level thinking skills were used. Graphics used to support the information.	Missing one section of content or content not covered in depth.	Missing 2 sections of required content.	Missing 3 or more sections of required content.	x2	
Prognosis	Includes all required information and covers the topic completely and in depth. Clear evidence that higher level thinking skills were used. Graphics used to support the information.	Missing one section of content or content not covered in depth.	Missing 2 sections of required content.	Missing 3 or more sections of required content.	x2	
Presentation	Professionally delivered presentation within the time limit. Communicated ideas with enthusiasm, proper voice projection, and appropriate language.	Communicated ideas with adequate preparation and delivery.	Communicated ideas with limited preparation and delivery.	Communicated ideas with poor preparation and delivery.	x2	
Design	Demonstrates appropriate and creative use of fonts, colors, backgrounds, and effects. Includes various types of graphics that support the information.	Demonstrates acceptable use of creativity.	Demonstrates limited creativity	Demonstrates poor creativity	x2	
Citations	Includes proper acknowledgement of all intellectual property including graphics. Citations included on each slide. At least 3 sources used.	Most sources properly cited.	Few citations properly cited.	Citations not properly cited.	x2	
Grammar	Grammar, spelling, punctuation, capitalization are correct. No errors in the text.	Includes 1-2 errors	Includes 3-4 errors	Includes 5 or more errors	x1	
Directions	All directions for setting up and submitting the project were followed.	1 direction not followed.	2 directions not followed.	3 or more directions not followed.	x1	

TOTAL SCORE _____/80