

Name _____

GENETICS DISORDER RESEARCH PROJECT

This unit project focuses on how genetics affects humans directly. Many people are affected by genetic disorders; you may even have some family members or friends with some of these diseases. I suggest that you choose a disorder that affects someone you know or intrigues you because it is strange or interesting. The goal is to research the disorder and orally present information and recent research through some visual media.

GENETICS DISORDER TOPIC SHEET

1. What genetic disorder do you want to research? _____
2. Who is your partner (or "none")? _____

GENETICS DISORDER RESEARCH NOTE-CATCHER - CITE ALL SOURCES

Research Site 1 (URL): _____

Presentation Requirements- Add your own, too.	Research
Definition of the disorder <ul style="list-style-type: none">✓ What happens to the body?✓ What part of the body does it generally affect?	
Description of the symptoms <ul style="list-style-type: none">✓ List all of the possible effects on the body	
Cause of the disorder <ul style="list-style-type: none">✓ What happens <u>in the body</u> to cause the disease?✓ Is it a mutation? A genetic tendency triggered by other factors?	
How the disorder is inherited <ul style="list-style-type: none">✓ Is it sex-linked?✓ Is there a particular chromosome it is located on?✓ Is it recessive or dominant?	
How the disorder is treated <ul style="list-style-type: none">✓ Medications? Gene therapy?	
How the disorder is diagnosed <ul style="list-style-type: none">✓ What tests are done? Is genetic counseling an option?	
How many and what type of people are likely to have the disorder <ul style="list-style-type: none">✓ Is it more common in a certain group of people?✓ How common is it?	

GENETICS DISORDER RESEARCH NOTE-CATCHER – CITE ALL SOURCES

Research Site 2 (URL): _____

Presentation Requirements – Add your own, too.	Research
Definition of the disorder ✓ What happens to the body? ✓ What part of the body does it generally affect?	
Description of the symptoms ✓ List all of the possible effects on the body	
Cause of the disorder ✓ What happens <u>in the body</u> 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 treated ✓ Medications? Gene therapy?	
How the disorder is diagnosed ✓ What tests are done? Is genetic counseling an option?	
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?	

SEE ME FOR MORE NOTE-CATCHERS IF YOU USE MORE THAN TWO SOURCES

For an Advanced Grade: Interview someone with the disorder or a family member of that person and include details of how it helped you understand the disorder and how it affects a person's life. Alternatively, IF the disorder is too rare to find someone to interview, come up with interview questions and find answers to those questions. You may want to start here: <http://www.ncbi.nlm.nih.gov/books/NBK1116/>

You will have time on Wednesdays in class to work with your partner to share the research and work together as needed. The three Wednesdays that you will have in class are October 23rd, November 6th and November 13th. On November 20th, be prepared to present to peers to receive feedback and to make any necessary final changes prior to presenting to the class. Presentations for a grade will begin on November 21st.

October 23rd: First day in class – Disorder will be assigned, research to begin. Find article on disorder to read.

November 6th: Read article in class and continue research. Begin building the presentation.

November 13th: Continue research and building the presentation as needed.

November 20th: All research should be completed, begin building the presentation. Preliminary presentation (practice) to colleagues to receive feedback and make final changes.

November 21th: Presentations to the class begin. Order of presentations to be determined later.

November 22nd: Last day of presentations.