

Genetic Disorder Project for Biology

PowerPoint	Score (1-4)
1) Name of disorder <ul style="list-style-type: none"> a) spelled correctly b) alternate names for disorder included c) name pronounced correctly d) How the name was chosen e) Who/when/where/how discovered 	
2) Type of genetic disorder <ul style="list-style-type: none"> a) <u>specific</u> type of disorder given with brief explanation of what that type of disorder is. (Ex. If the disorder is present because there is <u>trisomy</u> of 21st chromosome, explain what <u>trisomy</u> means.) b) Explain <u>how</u> the disease is inherited. 	
3) Chromosome/genetics graphic <ul style="list-style-type: none"> a) your <u>particular</u> disorder is represented by a graphic of a chromosome, karyotype, punnett square, pedigree...etc. b) location of genetic cause <u>clearly</u> marked if chromosome picture is used. 	
4) Symptoms of disorder <u>explanation</u> of all possible symptoms and effects of disorder.	
5) Effects of disorder <u>explanation</u> of all possible effects of disorder.	
6) Diagnosis of individual with disorder <ul style="list-style-type: none"> a) <u>explain</u> how doctors determine a person has the disorder. b) Specific tests used in diagnosis 	
7) Prognosis of individual with disorder <ul style="list-style-type: none"> a) For example, the life expectancy of a person with the disorder, limitations they may face, etc. b) How does this disorder impact the person who has it? c) How does this disorder impact family members? 	
8) Treatments/medications available to individual with disorder <ul style="list-style-type: none"> a) Current treatments of disorder and current treatment of symptoms b) Treatments used in the past c) Is gene therapy a possibility? 	
9) Current research Find at least one facility/foundation that is researching this disorder and explain what they are working towards in the future.	
10) 2 nd graphic related to your chosen disorder	
11) Summary of one great story about an affected individual or the parents/family of the affected individual.	
12) Presentation done in a timely manner. <ul style="list-style-type: none"> a) presentation lasts 4-6 minutes b) information presented in assigned order 	

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Project Deductions

Students are expected to act in a **first class manner** at all times during student presentations.

Students who choose to be disrespectful or disruptive will lose points from **their** presentation for each disruption. This includes any and all **comments** made while a presenter is speaking. Any student interrupting a third time will be sent to office for disciplinary action.

Students who rest their head on their table, bookbag, etc. during presentations will have points deducted each time they do so.

Any APPROPRIATE questions should be asked at the **end** of each presentation

Students need to use the restroom/get water before coming to class on presentation days!

Presentation Rubric

	4 / 3	2 / 1	Total
Organization and appearance	Student presents information in logical, interesting sequence which audience can follow. Exceptionally attractive and creative format.	Audience has difficulty following presentation because student jumps around. Graphics and text are somewhat balanced..Creativity minimal.	
Subject Knowledge	Student demonstrates full knowledge (more than required) by answering all class questions with explanations and elaboration.	Student is uncomfortable with information and is able to answer only rudimentary questions.	
Graphics	Student's graphics explain and reinforce screen text and presentation.	Student occasionally uses graphics that rarely support text and presentation.	
Mechanics	Presentation has no misspellings or grammatical errors.	Presentation has three misspellings and/or grammatical errors.	
Eye Contact	Student maintains eye contact with audience, seldom returning to notes.	Student occasionally uses eye contact, but still reads most of report.	
Voice	Student uses a clear voice and correct, precise pronunciation of terms so that all audience members can hear presentation.	Student's voice is low. Student incorrectly pronounces terms. Audience members have difficulty hearing presentation.	
Demeanor	Student respectful of subject matter and tactful in presentation. If humor is used, it is appropriate.	Student is respectful of subject matter but lacks tact in the presentation. Also uses inappropriate humor.	
Average of points:			

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Write your initials in the box next to genetic disorder you want to research and present to the class.

1. Achondroplasia
2. Alpha-1 Antitrypsin Deficiency
3. Antiphospholipid Syndrome
4. Autism
5. Autosomal Dominant Polycystic Kidney Disease
6. Breast cancer
7. Charcot-Marie-Tooth
8. Colon cancer
9. Cri du chat
10. Crohn's Disease
11. Cystic fibrosis
12. Dercum Disease
13. Down Syndrome
14. Duane Syndrome
15. Duchenne Muscular Dystrophy
16. Factor V Leiden Thrombophilia
17. Familial Hypercholesterolemia
18. Familial Mediterranean Fever
19. Fragile X Syndrome
20. Gaucher Disease
21. Hemochromatosis
22. Hemophilia
23. Holoprosencephaly
24. Huntington's disease

25. Klinefelter syndrome
26. Marfan syndrome
27. Myotonic Dystrophy
28. Neurofibromatosis
29. Noonan Syndrome
30. Osteogenesis Imperfecta
31. Parkinson's disease
32. Phenylketonuria
33. Poland Anomaly
34. Porphyria
35. Progeria
36. Prostate Cancer
37. Retinitis Pigmentosa
38. Severe Combined Immunodeficiency (SCID)
39. Sickle cell disease
40. Skin Cancer
41. Spinal Muscular Atrophy
42. Tay-Sachs
43. Thalassemia
44. Trimethylaminuria
45. Turner Syndrome
46. Velocardiofacial Syndrome
47. WAGR Syndrome
48. Wilson Disease