Names: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Rubric for genetic disease project

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| 7. **GENETICS*** Patterns of inheritance & mutation and its impact on person life and family
 |
|  | **NYM (1)**  | **AE (2)** | **ME(3)** | **EE (4)** |
| Which disease? |  |  | I present a disease related to a genetic problem: Chromosomal abnormalities & Mendelian inheritance disorders |  |
| Which chromosome and/or gene? |  |  | I name the chromosome affected and/or the gene(s) affected.I add a picture/ diagram of the karyotype and/or gene to show where is the problem. |  |
| Which type of mutation? |  |  | I mention if it is a chromosomal mutation or a gene mutation. |  |
| What does the mutation look like? |  |  | I list the principal characteristics of the person with this disease. I include pictures and diagrams.  |  |
| What can be done? |  |  | I list the possible treatments or cure for the disease. Is there anything new outcomes that can be expected with gene therapy? Other treatments or therapy? |  |
| How long can a person live? |  |  | I mention the life expectancy of a person with the disease. |  |
| Should we invest in research? |  |  | I consider economical\financial; improved health; better life quality, longer life expectancy for myself or others.Why should we invest or not? I make reasonable and intelligent suggestions? |  |
| How would my life change? |  |  | I can reflect on a possible life with a biological child with this disease.What would I do if I was informed that I was a carrier of a dominant or recessive trait involved in the disease I have chosen?What would I do if the result from the amniocentesis were showing that the baby has that disease? |  |

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| 1. **QUESTIONING & PREDICTING**
* Demonstrate a sustained intellectual curiosity about a scientific topic of personal interest
 |
|  | **NYM (1)**  | **AE (2)** | **ME(3)** | **EE (4)** |
|  |  |  | My oral presentation is with interest and is engaging for my classmates. |  |

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| 4. **EVALUATING*** Exercise a healthy, informed skepticism, and use scientific knowledge and findings to form their own investigations and to evaluate claims in secondary sources.
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|  | **NYM (1)**  | **AE (2)** | **ME(3)** | **EE (4)** |
| WRITING and video selection |  |  | I present accurate and complete facts (with references) related to the topic. |  |

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| **6. COMMUNICATION: Use inquiry processes and skills to communicate findings and decisions** |
|  | **NYM (1)**  | **AE (2)** | **ME(3)** | **EE (4)** |
| WRITING |  |  | I present on a Goggle Slide presentation the important facts. |  |
| VIDEO |  |  | I present a video (4 minutes max) that support my learning and understanding of the situation. |  |
| QUESTIONS |  |  | * I have 3 questions related to the understanding of the disease
* I have a question of deeper thinking,
 |  |
| BIBLIOGRAPHY |  |  | I copied the link of the website used.  |  |