**Genetic Disorder Research Project (50 points)**

**Objective:** to research a human genetics condition to further understand how gene mutation affect people’s lives.

Alone or in pairs you will research your assigned topic and present to the class in a power point prestation.

# Assignment Guidelines:

* PowerPoint Presentation
* Minimum 10 slides(1 title slide, 9 or more information slides, last slide(s) for references)
* **Be prepared to talk for 5 min.**
* Be concise: information in bullet form. No paragraphs. Aim for 3-5 bullets per slide. Eg. List the 5 major symptoms that sets this condition apart from others.
* Aim for a picture/graphic on each slide
	+ - References: all website addresses you used, cited correctly, Minimum of 3, No wiki or personal webpages (weebly, prezi, etc).
		- You will be marked on how well you use your research time, how organized and asthetically pleasing your powerpoint is and how well you present (clear, knowledgeable)

Slide 1. Title Slide: Name of genetic disorder, Name of presenter(s)

Slide 2. Description. What are the specific symptoms of this genetic disorder? Include all the major symptoms.

Slide 3. How is the disorder inherited? Is it a dominant trait, a recessive trait, a problem with the number of chromosomes, or something else? On which chromosome is the affected gene on?

Slide 4. What is the treatment for this disorder? If no treatment is available, what can be done for a person with this disorder? Can this disorder be cured? Explain how it can or why it cannot be cured.

Slide 5. How is this treatment diagnosed?

Slide 6. How common is the disorder? How many people have it? How many get it each year?

Slide 7. Who does it affect? Is there a certain race it is most common in? Is it more common in men or women?

Slide 8. How long is the average life span of a person with this disorder?

Slide 9. What have you learned personally from researching this disorder/How is the family affected?

Slide 10. List all references that you used.

# Rubric

Time in library well spent 0 2 4 6 8

Information is complete 0 2 4 6 8

Visual/Neatness/Spelling/Grammar 0 2 4 6 8

Graphics are included 0 2 4 6 8

Copy of Powerpoint and planning sheet submitted 0 5

References included 0 5

Presentation (eye contact, volume, participation, 0 2 4 6 8

 questions answered)

**Total out of 50 points = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Genetic Disorder Planning Sheet**

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| Slide 1: Title, Names |
| 2 Symptoms | 6 Stats – how common |
| 3 Inheritance  | 7 Who gets it? |
| 4 Treatment/Cure/Management | 8 Life Expectancy |
| 5 Diagnosis | 9 Learn/Affect on Family |