



A genetic mutation is a change in the nucleotide of a strand of DNA. There are many genetic mutations, some of which can be positive, neutral, or negative. Choose a genetic mutation and create a story that shares: “The Life of a Genetic Mutation”. Make it personal: you are a gene inside your host. Share the process of how you mutated from a normal gene and what your mutation ended up doing to the host.

In order to tell the story, you will need to access information about this mutation. You will have to ask and answer questions like: “What causes this mutation?”, “What does the mutation do to the host?”, “How is this mutation treated?” Keep track of the questions you ask, the information you find, and where you find it.

This assignment will be part of your Applications of Digital Literacy course. In this assignment you will complete 2 parts. The first part will tell your mutation story. The second part will be to reflect on how you gathered the information for this story. Each part will be published together in one post on your Edublogs portfolio in the Science 9 category and tagged with ADL16mutation. Here are some questions to help you get started:

Part 1: Mutation Story

- 1) What happened to you as a gene?
- 2) What caused your mutation?
- 3) What effects did the gene mutation have on your host’s body?
- 4) How was the host’s life affected? What was their story?

Part 2: The Making of Mutation Story

- 1) What questions did you need to research in order to create your mutation story?
- 2) What new or familiar digital tools did you try to use as you worked through this project?
- 3) What was the process you used to investigate the topic?
- 4) How did you verify and cite the information you found?
- 5) How did the process of completing this challenge go? What could you have done better?

Your response is due _____ Dec. 12, 2016 _____ and must be uploaded to your Edublogs account. We expect that the tone of this assignment will be considerate and respectful, and use language that is inclusive, appropriate, and appealing to the Riverside community. Your response will be reviewed and if there are concerns or questions with your response you may be contacted by Mr. Barrington or Mr. Robinson who are the COL teachers. If there is any evidence of plagiarism your response will be considered incomplete and you will have to redo your assignment. Feedback will come in the form of an email and a comment on your blog. We will use the rubric below:



Ask
Acquire
Analyze
Apply
Assess

Part 1: What your Science 9 teacher is looking for:

	Does not meet - 1-2	Minimally Meets - 3	Fully Meets - 4	Exceeds - 5
Mutation Content	Has no facts telling what we learned about genetic mutations.	Contains 1-2 facts about genetic mutations (codons, ribosome).	Contains 3-4 facts about genetic mutations (base substitution, DNA, RNA, nucleotide).	Contains many fact on how mutations occur.
Effects Content	Does not mention the effects of the genetic mutation.	Mentions the name of a disease or effect.	Gives some information on the resulting disease or effect.	Gives a complete picture of the mutation.
Story Content	No story.	A stringing together of unrelated events.	Simple story outlining the mutation and effects.	A creative story that keeps the reader entertained.
Detail	Single paragraph.	2 paragraphs.	Multiple paragraphs.	Multiple paragraphs and Media content completely telling the Mutation story

Part 2: What your Applications of Digital Literacy 10 teacher is looking for:

	Does not meet 1-2	Minimally Meets 3	Fully Meets 4	Exceeds 5
ASK What are the questions you are trying to answer?	No guiding questions included in the post.	Struggled to find good guiding questions.	Found some guiding questions but could have probed deeper.	Successfully found good questions to guide research.
ACQUIRE How did you try to answer your questions?	Struggled to find tools to gather the necessary details to answer the questions.	Used a single search engine to gather information.	Used a search engine and 1 other tool to gather information (Google, Youtube, Destiny, Ebsco, a syndrome's website).	Successfully provided evidence of multiple digital tool use (Google, Youtube, Destiny, Ebsco, a syndrome's website).
ANALYZE Did you find relevant information to answer your questions and cite where you found it?	Information does not answer your questions in your assignment; partial or complete copies of digital sources used (UNACCEPTABLE)	Found information to answer your questions but information is minimal; the work is original but the sources are not cited.	Found accurate information to answer your questions; Simple citing of sources.	Successfully answered your questions with information from a variety of sources; complete citing of sources with embedded links to information
ASSESS How did the process go?	No reflection on the product or the process of completing the assignment	Simple reflection on the product of the project. No insight into examining the process or the final outcome of the assignment.	Examines the product/process but limited or no improvements for the final product. Simply a reflection on what did or did not work well for the assignment.	Honestly and critically examines the product and process and can demonstrate where improvements could have been made.