



Demonstrate your learning to address your wonder question by posting in Edublogs: **Science 9 category** | tag:

Rob23Explore

Create a Sway that you embed into your Edublogs portfolio

- 1) State your **wonder question**.
- 2) Explain why/how your question is significant/meaningful to you and others.
- 3) Embed some media to shed light on the answer to your question.
- 4) Share about at least **three quality sources** that you have found that helped you to answer your **4-5 sub questions**. For each source, include the following:
 - Title, author/person name, source of information
 - An **in-your-own-words** summary of the information presented
- 5) Add a graph that you find that shows some data about the topic and explain the graph.
- 6) Write a paragraph on how your exploration helps you answer your big question.

	Emerging	Developing	Proficient	Sophisticated
Wonder Questioning	Attempts to generate simple questions that can be researched or investigated.	With assistance generates complex questions that can be partially researched or investigated.	Independently generates un-Google-able questions that can be thoroughly researched or investigated.	Independently uses prior learning to generate thoughtful questions that can be thoroughly researched or investigated.
Curiosity Demonstrating	Demonstrates minimal understanding due to little expression of curiosity.	Shows an increasing level of interest in new experiences and seeks out new information with some level of independence.	Consistently demonstrates high levels of curiosity, actively seeks out new experiences and information, and shows a strong drive to learn and explore.	Goes beyond what is typical and expected, consistently demonstrates advanced levels of curiosity and a desire to continuously learn and discover.
Graph reading	Attempts to examine graphs and is beginning to extract information from them (interpolation, extrapolation).	Partially examines graphs and minimally extracts information from them (interpolation, extrapolation).	Thoroughly examines graphs and effectively extracts information from them (interpolation, extrapolation).	Precisely examines graphs and effectively extracts detailed information from them (interpolation, extrapolation).
Information Sourcing	Brief or no citations to references used to collect evidence / information including images/media.	Minimally cites references used to collect evidence / information including images/media.	Thoroughly cites references used to collect evidence / information including images/media.	Extensively cites references used to collect evidence / information including images/media.

Under your Sway, reflect on and answer the Information Fluency Questions

1. List your 4-5 sub questions you tried to answer in order to research your topic?
2. What new or familiar digital tools did you try to use as you worked through this project?
3. How did you verify and cite the information you found and show your research in a works cited?
4. How did the process of completing this challenge go? What could you have done better?

	Emerging 1-2	Developing 3	Proficient 4	Sophisticated 5
<p>ASK</p> <p>What are the questions you are trying to answer?</p>	No sub questions included in the post.	Shared 1 or 2 sub questions	Found some sub questions but could have probed deeper.	Successfully found good sub questions to guide research.
<p>ACQUIRE</p> <p>How did you try to answer your questions?</p>	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 (Youtube, Gale Engage Learning, Creative Commons, Learn360).	Successfully provided evidence of multiple research tool use (Youtube, Gale Engage Learning, Creative Commons, Learn360).
<p>ANALYZE</p> <p>Did you find relevant information to answer your questions and cite where you found it?</p>	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 using one of the standard methods
<p>ASSESS</p> <p>How did the process go?</p>	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 outcome of the assignment.	Examines the product/process but limited or no improvements for the final product.	Honestly and critically examines the product and process and can demonstrate where improvements could have been made.