

## Science Research Summer Assignment

Join the science research summer classroom page using the code: 6pzhk5i

1. The goal of this assignment is to get you closer to a final research idea early in the fall.
  - To give you ideas, some of the topics that the juniors are researching this summer are:
    - i. Sources, amounts and types of plastic at the East Rockaway Beach
    - ii. Impact of biochar on the formation of compost in the presence of microplastics
    - iii. Potential options for extending electrification of the Hudson Line from Croton to Poughkeepsie
    - iv. Impact of different land management practices on soil organic carbon and biodiversity in suburban soils
    - v. Effect of iron deficient anemia on mental health
    - vi. Monitoring changes in seismic wave transmissivity through transverse faults with ice as proxy
    - vii. Exploring the viability of invasive wood as an alternative material for skateboard deck manufacturing
    - viii. Examining interactions between typology, funding, and output in US think tanks
  
2. Read five articles in your area of interest.
  - Make one document with a separate page for each article.
  - Articles must come from an accredited source such as a newspaper (New York Times, LA Times, Washington Post, The Scientist, AAAS, etc.), or a popular magazine (Scientific American, Popular Science, Science News, Popular Mechanics, etc). *Try to vary your sources.*
  - The article must be at least 15 paragraphs long and cannot be older than three years.
  - The articles **should not be** full length, professional journal articles (published in a professional journal). If you have any questions about whether or not an article is acceptable, email me a link to the article (shandroffm@hohschools.org).
  - Type up to a **one page, single-spaced** article response for each of the five articles in Times New Roman, size 12 font that includes the following:
    - Your name should be at the top of the document.
    - Include a link to the article
    - Type out detailed, extensive, bulleted notes explaining the main and interesting points of the article.

\*\*These must be in **your** own words\*\* A one paragraph summary of the article (at least five sentences).
    - Five vocabulary words that are key words needed to understand the content of the article. Include the definition of the word.
    - Two questions you have after reading the article - I am looking for thoughtful questions that go beyond something that is easily Googled.
  
3. Listen to five podcast episodes about your topic of interest. Use Google to search for the podcasts.
  - Make one document with a separate page for each podcast.
  - Type a single-spaced response to each podcast in Times New Roman, size 12 font that includes the following:
    - Your name should be at the top of the document.

- The title of the podcast and the name of the host and/or scientist
  - A one paragraph summary of the episode in your own words (at least five sentences)
  - An answer to the question: What is one thing the speaker wants the listener to understand?
  - What two questions would you ask the speaker if given the opportunity?
4. Watch five TedTalks: Go to <https://www.ted.com/talks> and search for talks in your field of interest.
- Make one document with a separate page for each TedTalk
  - The TedTalk must be at least 15 minutes in length
  - Type a one page, single-spaced response to the TedTalk in Times New Roman, size 12 font that includes the following:
    - Your name should be at the top of the document.
    - Provide a link to the TedTalk and the name of the person speaking.
    - A one paragraph summary of the talk (at least five sentences)
    - An answer to the question: What does the speaker want the listener to understand by listening to their talk?
    - What two questions would you ask the speaker if given the opportunity?
5. **All three documents** should be submitted on the summer Google Classroom page. You **DO NOT** have to print this assignment.
6. **This assignment will be due the first day of school - September 5, 2023 by 8:15 AM - *whether you have class with me or not.*** If the assignment is not completed by this date, you will be asked to drop the class. The grade for this assignment will be part of your 1st quarter grade.
7. You will be using this summer assignment for our first presentation of the school year.