

Science Research Summer Assignment

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1. Choose three topics of interest. 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. Impact of nanoclay on the growth of plants
 - ii. Does mindfulness reduce symptoms of ADHD?
 - iii. 53BP1 as a Biosensor to Track Ionizing Radiation-Induced DNA Damage and Repair Using Live Cell Imaging
 - iv. Does beech leaf disease impact the growth of beech trees?
 - v. The relationship between racial covenants, tree canopy and impervious surfaces
 - vi. The impact of the closure of the Indian Point Energy Center on energy sources and greenhouse gas emissions in New York State
 - vii. The role of mitochondrial tRNA in hexavalent chromium-induced lung epithelial cell transformation
2. Read five articles in each of your three topics.
 - Articles must come from an accredited source such as a newspaper (New York Times Science Section, LA Times, etc), a popular magazine (Scientific American, Popular Science, Science News, Popular Mechanics, etc), or a legitimate website (Science Daily, NASA, National Geographic, university, hospital, etc). Try to vary your sources.
 - The article must be at least 15 paragraphs long and cannot be older than two years.
 - **The articles should not be full length, professional peer reviewed 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).
 - Create a separate document for each of your three topics. Your name should be at the top of the document along with the topic that corresponds to the articles in the document. 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:
 - Bibliographic information for the article including title, author, publication date, name of publication
 - Include a link to the article, or if not from the internet, cut out the article and turn it in to me in September.
 - A one - two paragraph summary of the article (at least five sentences) explaining the main and interesting points of the article.
 - Five vocabulary words that are key words needed to understand the content of the article. Include the definition of the word.
 - An answer to the question: What does the author want the reader to understand by reading the article?
 - Two questions you have after reading the article - I am looking for thoughtful questions that go beyond something that is easily Googled.
3. The article assignment will be due the first day of school - September 3, 2024 by 8:15 AM. 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.
4. You will be using this summer assignment for our first presentation of the school year.

Other suggestions to learn more about your topics:

TedTalks and Podcasts