



AP ENVIRONMENTAL SCIENCE

Summer Assignment

In the fall we will explore the fields of public health and human population growth. The summer assignment will introduce public health and prepare you for in-class labs and discussions.

30 Points Possible

Over the summer, read The Ghost Map: The Story of London's Most Terrifying Epidemic - And How It Changed Science, Cities and the Modern World by Steve Johnson. This book is available in bookstores, online, as an e-book and at most libraries.

Prior to reading the book, review the questions to help you gather evidence for your responses while reading. Once you have read the book, respond to the following questions. All responses should be thoroughly explained and supported with evidence from your reading, cite with page numbers.

The summer assignment is due on the first day of school and directions will be given in class about how to submit your assignment to Canvas and have it automatically checked by Turnitin.com. A hard copy is not needed.

Please email any questions to Ms. Porter (kporter@hbuhsd.edu).

1. What is public health? Explain why the London cholera outbreak is a classic example of the importance of public health. Provide and analyze two quotes to support your response.
2. Public health is a constantly changing field, shaped by the tentative nature of science. Scientific ideas are revised as new technology sheds light on new evidence. One common public health concept that is no longer supported is the miasma theory. How was the miasma theory shaped by the scientific limitations of the Victorian Era? As evidence to support your response, include three quotes.
3. Science is a collaborative endeavor. Identifying the cause of London cholera outbreak, stopping the spread of the outbreak, and influencing the public to improve overall public health. Describe two examples of the collaborative nature of science discussed in the book. Support each example with at least one quote.
4. In the United States, we have been experiencing an outbreak in measles. From January 1 to May 17, 2019, there have been confirmed cases of measles in 24 states. According to the CDC, this “is the greatest numbers of cases reported in the US since 1994 and since measles was declared eliminated in 2000”¹. Research the causes of the current measles outbreak. Present two strategies for stopping or slowing the current outbreak that are clearly linked to the causes you researched. Include MLA citations for all sources used.

¹ <https://www.cdc.gov/measles/cases-outbreaks.html>