**Topic:**intro to science post test

**Paper details:**

PLEASE USE QUESTIONS AS SUBHEADERS FORMATTING AND A COVER LETTER IS NOT NEEDED. 1. First, explain what a theory is and the main characteristics of a theory. Next, explain how and why theories often change and evolve over time. In particular, consider the role that technological advancements play in how theories change over time. In your response, include at least one example of a theory that has changed/evolved over time, and explain why. Note: This is an extended essay question worth 40 points. The response should be formatted in a multi-paragraph essay with attention to essay structure, grammar mechanics, and APA formatting. It should be written entirely in your own words. Please include an introduction, a conclusion, and 3-4 body paragraphs. Include in-text citations and references. 2. Why is it important to differentiate between science and pseudoscience? Provide three reasons, and briefly explain each reason. Answer in 1-2 paragraphs. 3.Explain how science influences/affects your everyday life, and provide three examples. Answer in 1-2 paragraphs. 4. What, if any, are the negative impacts of keeping such fields of inquiry as science and religion separate? Provide examples to support your answer. Answer in 1-2 paragraphs. 5. What are some of the important similarities and differences between primary and secondary sources of scientific information? Answer in 1-2 paragraphs. 6. Compare and contrast inductive reasoning with deductive reasoning. Provide an example of each type of reasoning and use that example in the context of the scientific method by showing how the different types of reasoning play a role in the entire process. Answer in 1-2 paragraphs.

7. Falsification is a form of research misconduct in the sciences. What is falsification, and why is it considered a breach of ethics in science? What are two potentially harmful effects of falsification? Answer in ~1 paragraph. 8. Describe the difference between a hypothesis and a theory, and provide examples of each. Answer in ~1 paragraph. 9. Why is it so important for scientific investigations to take place within a scientific community? What does the scientific community provide, and how is it beneficial? Answer in 1-2 paragraphs. 10. Identify three major technological changes that have occurred over the past three decades, and briefly discuss how they have impacted, or how they have been impacted by, science. Answer in 1-2 paragraphs. 11. What are four characteristics of science? List and describe each characteristic in your own words. Answer in ~1 paragraph. 12. Review the following article: 11 Benefits of Drinking Lemon Water. Then use the CRAAP test to score and assess the credibility of this source. In your response, be sure to assess each of the five factors in the CRAAP test. Explain your assessment in 1-2 paragraphs. https://www.lifehack.org/articles/lifestyle/11-benefits-lemon-water-you-didnt-know-about.html 13. In your own words, describe the economic rationale for science literacy. Provide at least one example to illustrate your main ideas. Answer in ~1 paragraph.