

MISCONCEPTION ABOUT THE WORK OF SCIENTISTS (NATURE OF SCIENCE) 23

Many people think that the work of scientists is procedural in nature. In other words, some people think that scientists use the same techniques to collect or analyze data or follow the same routine for all their investigations. These people, as a result, think that the work of a scientist requires little creativity or imagination.

Write a one- to two-page refutational essay to convince someone who thinks that science is procedural in nature and does not require creativity and imagination that this idea is a misconception. As you write your paper, remember to

- clearly state the misconception that you are trying to refute;
- include several specific facts, details, reasons, and/or examples that show or demonstrate why the misconception is inaccurate;
- explain why scientific investigations require so much creativity and imagination;
- include several specific facts, details, reasons, and/or examples that show how creativity and imagination are important aspects of scientific investigation;
- present your ideas in a clear and logical order, including an introduction, body, and conclusion;
- use a variety of words and well-constructed sentences to create tone and voice;
- include at least five references in your essay and be sure to cite your references correctly; and
- correct errors in capitalization, punctuation, sentence structure, spelling, and grammar.

You will have _____ to research this topic, and then plan, write, edit, and produce a final product. You must use at least five different reference materials (e.g., your textbook, online resources, and so on) during this process. Be sure to cite all your references in the text of your essay and include a reference section.

You must complete your **research** by _____.

Your **prewrite** (an outline, a concept map, and so on) is due on _____.

Your **initial draft** of your essay is due on _____.

Your **final draft** of your essay is due on _____.