

MISCONCEPTION ABOUT THE NATURE OF SCIENTIFIC KNOWLEDGE (NATURE OF SCIENCE) 22

Many people believe that scientific knowledge is absolute. In other words, some people think of scientific knowledge as something that has been proven true and as a result, it cannot or will not change. For these people, scientific knowledge is not tentative; scientific knowledge is absolute.

Write a one- to two-page refutational essay to convince someone who thinks that scientific knowledge is absolute and never changes that their 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 how scientific knowledge is durable but why it can change;
- include several specific facts, details, reasons, and/or examples that show or demonstrate how scientific knowledge is tentative and can change over time;
- 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 _____.