

Quick Write...

Take 10 minutes to

- Read Essay 33 "Science and Pseudoscience"

Take 15 minutes to respond to the following...

- Define the terms "science" and "pseudoscience". What distinguishes the two?
- What is "Falsification" (ie the problem of induction)?
- Do you believe that there is a "scientific method"?
- Is science created or discovered? Explain.

Nov 30-12:17 PM

Geoff Marcy: I think the real stuff of science is not the facts, it's not the equations, it's really the dreaming and constructive dreaming. You can't just dream up an idea, you have to actually then work at it for awhile. Both are important, but the dreaming is the most important part.

Dec 13-12:39 PM

SFAA: Chapter 1 The Nature of Science:

THE SCIENTIFIC WORLD VIEW

The World is Understandable

Scientific Ideas are Subject To Change

Scientific Knowledge is Durable

Science Cannot Provide Complete Answers to All Questions

SCIENTIFIC INQUIRY

Science Demands Evidence

Science is a Blend of Logic and Imagination

Science Explains and Predicts

Scientists Try to identify and Avoid Bias

Science is not Authoritarian

THE SCIENTIFIC ENTERPRISE

Science is a Complex Social Activity

Dec 13-12:41 PM

TEACHING THE NATURE OF SCIENCE:

Lederman (Unpublished Document)

- Tentative (subject to change)
- Empirically-based (based on or derived from observation of the natural world)
- Subjective
- Involves human inference, imagination, and creativity
- Socially and culturally embedded

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