

Conceptual Physics Reading Questions for *Is Science an Ideology?*

The following are suggested questions, that you are free to answer or leave black, to help guide our discussion after the reading. Feel free to write down any additional notes, comments, thoughts, suggestions, criticisms, etc. that come to mind as you read through.

1. In the face of contradicting evidence which disproves a scientific model or scientific theories, the models and theories must be changed. What should we do if we have nothing to replace a false model?

2. At what point does should entire scientific field be discredited? For instance, in physics Newtonian mechanics was disproved and replaced with the more modern theory of Relativity. If this pattern persists, at what point is our modern field of physics disproved and in need of replacement (just as chemistry replaced the outdated, yet arguably scientific, practice of alchemy)?

4. Research is performed by people. Should we view it in the same light as other human endeavors (such as, say, writing poetry)?

5. We are in a room with desks and chairs. How do we know that? Most people, without argument, would agree that this is true. How do we "know" that matter is made up of atoms, or that the Earth is orbiting the sun?