Week 5 Writing Activity: The Scientific Attitude, Ch. 4

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1 Necessity Criterion, and The Scientific Attitude

What are the two pieces of the scientific attitude?

In Ch. 4 of *The Scientific Attitude*, we begin to understand how the scientific attitude can form a "necessity criterion" for science, given that there is a scientific community willing and able to discern if the scientific attitude is being applied correctly to a field. For each field in Tab. 1, follow the prompt to decide whether or not it is a form of science based on this criterion.

Criterion	Type	Field	Yes/No
If field is scientific, then it follows the scientific attitude.	Necessity	Physics	
If field is scientific, then it follows the scientific attitude.	Necessity	Particle Physics (e.g. Big Bang)	
If field is scientific, then it follows the scientific attitude.	Necessity	Quantitative Sociology	
If field is scientific, then it follows the scientific attitude.	Necessity	Quantitative Finance/Economics	
If field is scientific, then it follows the scientific attitude.	Necessity	Creationism	
If field is scientific, then it follows the scientific attitude.	Necessity	Climate Science	
If field is scientific, then it follows the scientific attitude.	Necessity	Climate Skepticism (viral outbreaks)	
If field is scientific, then it follows the scientific attitude.	Necessity	Biological evolution	
If field is scientific, then it follows the scientific attitude.	Necessity	Kinesiology	
If field is scientific, then it follows the scientific attitude.	Necessity	Business administration	
If field is scientific, then it follows the scientific attitude.	Necessity	Quantitative psychology	
If field is scientific, then it follows the scientific attitude.	Necessity	Digital Art and Design	

Table 1: For each prompt, think very carefully about choosing yes or no, given the logical structure of the situation.

2 Leadership Characteristics

Essay development. Given what we have read about leadership qualities, outline a concise essay below that describes a moment in your life when you had to demonstrate these qualities. Your essay should be approximately 1000 words. In addition to describing a moment in your life, you should draw a connection to the character qualities that make for good science as shown in Ch. 3 of the book.