## Week 8 Writing Activity: Chapter 6 of the Scientific Attitude

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## 1 The Scientific Attitude and Modern Medicine

1	The	Bar	barous	Past	

- (a) Which of the following people is responsible for the theory of the four humours?
  - A: Pasteur
  - B: Rush
  - C: Hippocrates
  - D: Galen
- (b) What are the four humours? Provide several pieces of "evidence" for the theory of the four humours.
- (c) Describe the process of bloodletting, and comment on the effectiveness versus the risk.

## 2. The Dawn of Scientific Medicine

- (a) Approximately when and where did the Scientific Revolution take place, for physics, astronomy, and chemistry?
- (b) And when did modern science begin to have an influence on medical practice in the United States?
- (c) In the late 1800s (19th Century), Louis Pasteur completed a set of experiments proving that food "goes bad" due to the growth of microscopic organisms called bacteria. Keep in mind, he could not see them. Skeptics continued to practice medicine the old way, always asking "Where are the little beasts?" However, in 1879-1900 the bacteria responsible for major diseases were being "discovered at the phenomenal rate of one a year." What technological breakthrough enabled these discoveries, and who was primarily responsible?

## 3. The Long Transition to Clinical Practice

4. According to Thomas Kuhn, paradigm shifts often occur when "the holdouts die and take their ideas with them." Give an example of this, or, list a few paradigm shifts where this social factor played a role.