

Chapter Four Study Guide

Terms

Anomaly
falsifiability
Micro-Evolution
Operation Science
Paradigm
Scientific Fact
Theory Neutral

Empiricism
Forms
Normal Science
Origin Science
Paradigm Shift
Scientific Method

Experiment
Macro-evolution
Observation
Organon
Rationalism
Scientific Revolution

People

Francis Bacon
Albert Einstein
Sir Isaac Newton
Ptolemy

Nicholas Copernicus
Galileo Galilei
Karl Marx

Charles Darwin
Thomas Kuhn
Karl Popper

Essays

- * Why does Francis Bacon believe it is important for observations to be theory neutral?
- * What does Wolff mean by the "progressive" nature of science? How is this challenged by Thomas Kuhn's view?
- * Explain what the following terms mean and their importance in Kuhn's thought: Paradigm, Paradigm Shift, Normal Science, and Anomaly.