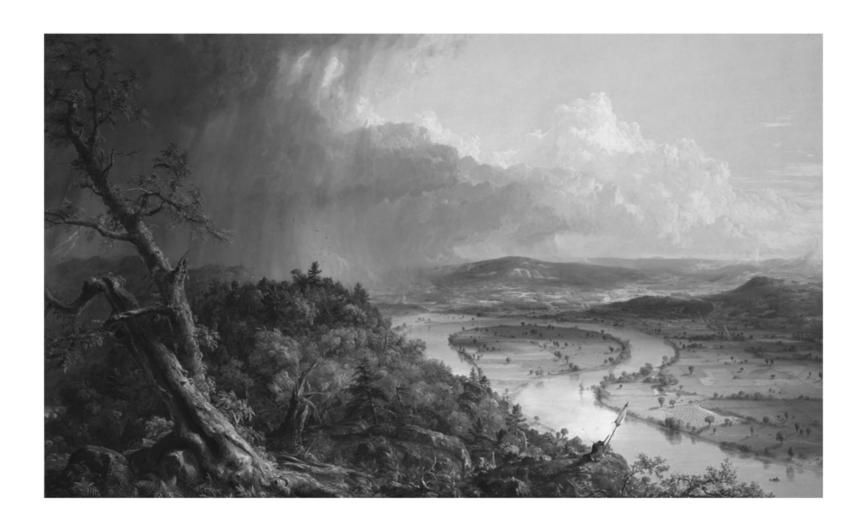
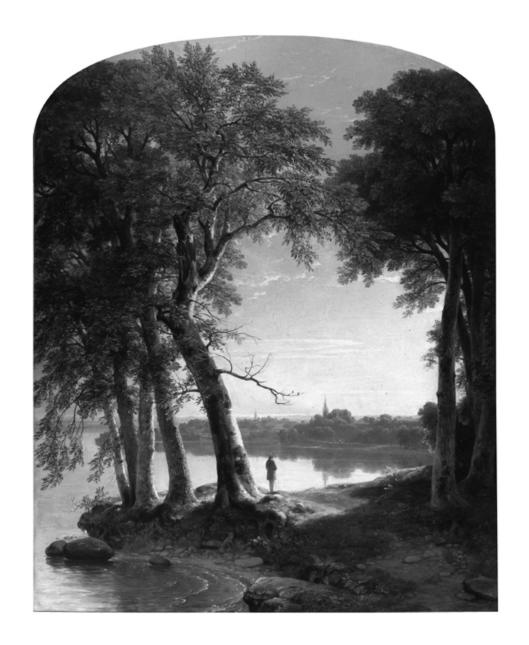
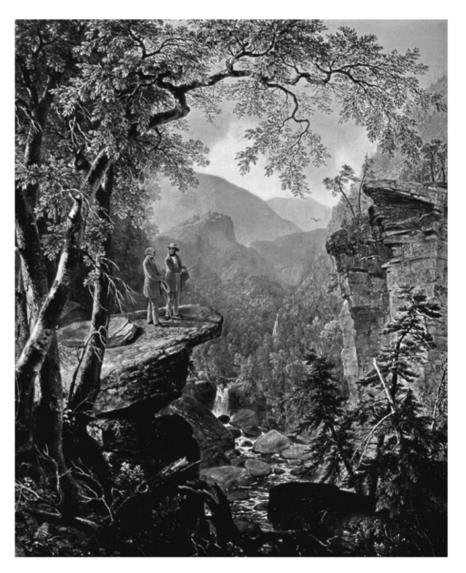
## ES7-Geog7 Lecture 2 G. Leddy, Spring 2017

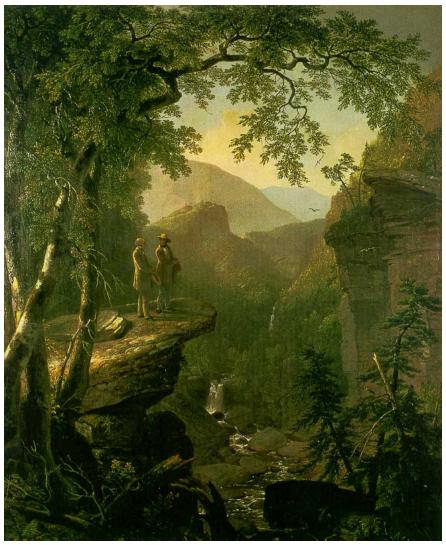


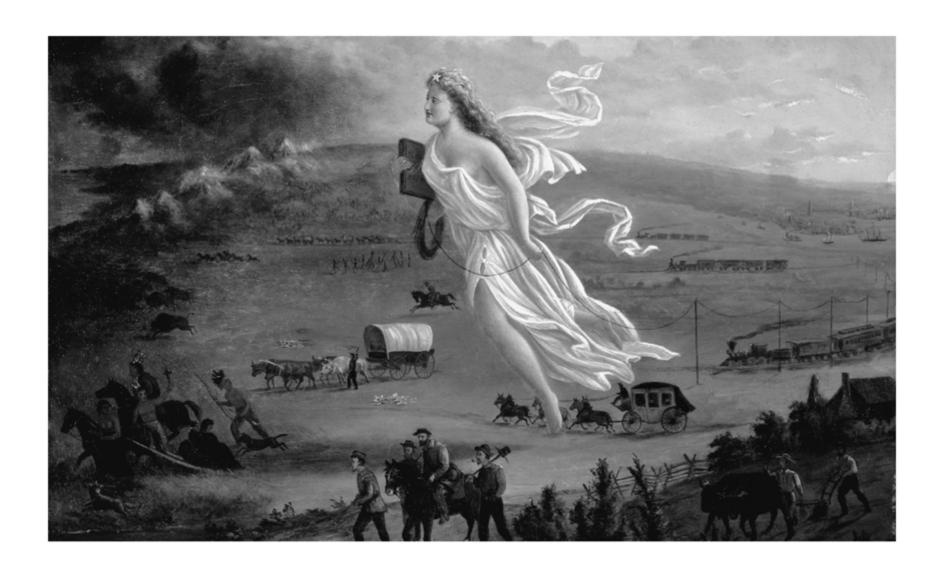














John Gast, American Progress, 1872. Chromolithograph published by George A, Crofutt. Source: Prints and Photographs Division, Library of Congress.





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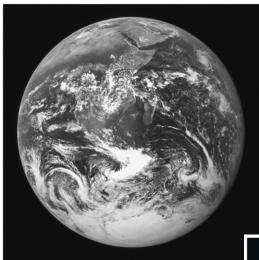
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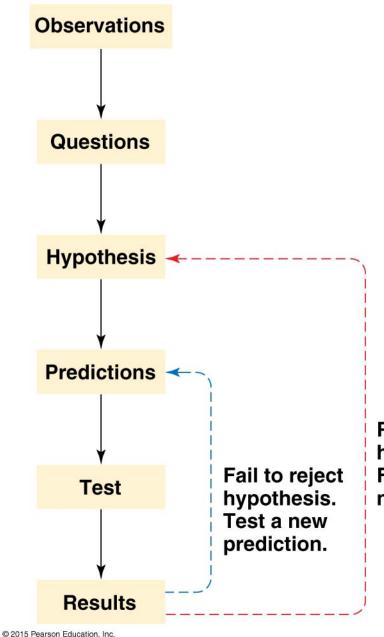








## **Scientific method**



Reject hypothesis. Form a new one.



## Scientific process (as practiced by scientific community) **Further** research by scientific Scientific method (as practiced by community individual researcher or research group) **Observations Publication** in scientific Questions journal Hypothesis → Paper rejected Paper accepted Revise Predictions < paper Reject Fail to hypothesis reject Test Peer review hypothesis Results Scientific paper

TABLE 2.1 TWO APPROACHES TO SCIENCE

	Experimental or theory-driven science	Observational or field science
HOW UNDERSTANDING EMERGES	Experimentation to test and build theory	Systematic observations to infer processes from surviving structures
EXAMPLES	Chemistry Physics Molecular biology Social psychology	Anthropology Astronomy Political science History