

## **Appendix 1: Implementing Teaching Standards**

### **Reading Standards for Literacy in Science and Technical Subjects Grades 11-12:**

Analyze the author's purpose in providing an explanation, describing a procedure, or discussing an experiment in a text, identifying important issues that remain unresolved.

Evaluate the hypotheses, data, analysis, and conclusions in a science or technical text, verifying the data when possible and corroborating or challenging conclusions with other sources of information.

Students will address these two standards as they review the data that is provided in the links to the primary text. They will also use evidence from the text to support their conclusions.

### **District/ NC state standards. Essential Standards. Biology**

Bio.3.4 Explain the theory of evolution by natural selection as a mechanism for how species change over time.

Bio.3.4.1 • Summarize the hypothesized early atmosphere and experiments that suggest how the first “cells” may have evolved and how early conditions affected the type of organism that developed (first anaerobic and prokaryotic, then photosynthetic, then eukaryotic, then multicellular).

Students will apply the 5 tenets of evolution as they make their way through the unit. The students will piece together the evolution of the first “cells” as the teacher presents each section and as they complete the activities included in the unit.