

## TEKS

- 7A** Analyze and evaluate how evidence of common ancestry among groups is provided by the fossil record, biogeography, and homologies, including anatomical, molecular, and developmental
- 7B** Analyze and evaluate scientific explanations concerning any data of sudden appearance, stasis, and sequential nature of groups in the fossil record
- 7G** Analyze and evaluate scientific explanations concerning the complexity of the cell
- 9D** Analyze and evaluate the evidence regarding formation of simple organic molecules and their organization into long complex molecules having information such as the DNA molecule for self-replicating life

## instructional content:

- ✦ Hypotheses on Origin of Life
  - Miller-Urey experiment
  - Iron-sulfur
  - RNA
- ✦ Dating fossils
  - Relative dating
  - Radiometric dating
- ✦ Geologic Time Scale
- ✦ Endosymbiotic Theory

## learning outcomes students will:

- Use all content and scientific process skills learned earlier in the course
- Summarize the main ideas of the various hypotheses on the origin of life
- Describe how fossils have contributed evidence to support the theory of evolution
- Explain the difference between relative dating and absolute dating
- Explain how index fossils are used to date rock layers
- Describe how the geologic record provides evidence for evolution
- Discuss the endosymbiotic theory explaining the evolution of eukaryotic cells



Incorporate scientific process skills during the instruction of all Biology concepts.  
**Look for this icon at [wardsci.com/TEKS](http://wardsci.com/TEKS) for more information on scientific process skills.**

## Recommended Ward's Science products with item numbers for easy online searching:

### science tools:

[Student Stratigraphic Fossil Collection](#) **503000**

### instructional resources:

[Evolution Six Labs](#) **4708000**

[Ward's Primordial Soup: Study of Evolution Lab Activity](#) **366005**

[Evolution of Whales Kit](#) **175086**

[Geologic Timeline with Insects Kit](#) **4697400**

[Ward's Phanerozoic Geologic Timescale Chart](#) **330205**

[Record of Life in the Rocks Collection](#) **6861303**