

TEKS

- 3F** Research and describe the history of biology and contributions of scientists
- 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
- 7D** Analyze and evaluate how the elements of natural selection, including inherited variation, the potential of a population to produce more offspring than can survive, and a finite supply of environmental resources result in differential reproductive success
- 7E** Analyze and evaluate the relationship of natural selection to adaptation and to the development of diversity in and among species
- 12B** Compare variations and adaptations of organisms in different ecosystems

instructional content:

- ✦ Early Ideas of Evolution
- ✦ Charles Darwin
 - *Beagle Voyage*
 - Theory of Natural Selection
- ✦ Evidence of Evolution
 - Fossils
 - Biogeography
 - Homologous structures
 - Similarities in development
 - Molecular

learning outcomes students will:

- Use all content and scientific process skills learned earlier in the course
- Define evolution
- Identify some of the early contributors and their ideas that shaped the modern theory of evolution
- Summarize the four main principles that led Darwin to his theory of natural selection
- Describe how fossils have contributed evidence to support the theory of evolution
- Distinguish between homologous and analogous structures
- Describe how similarities in development of organisms provides support for the theory of evolution
- Define biogeography and describe how biogeography provides support for the theory of evolution
- Describe how molecular similarities between organisms provides support for the theory of evolution
- Explain the difference between artificial selection and natural selection



Incorporate scientific process skills during the instruction of all Biology concepts.
Look for this icon at wardsci.com/TEKS for more information on scientific process skills.

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

instructional resources:

Ward's Biochemical Evidence for Evolution Lab Activity **361222**

Evolution Six Labs **4708000**