

TEKS

- 11B** Investigate and analyze how organisms, populations, and communities respond to external factors
- 11D** Describe how events and processes that occur during ecological succession can change populations and species diversity
- 12A** Interpret relationships, including predation, parasitism, commensalism, mutualism, and competition among organisms
- 12B** Compare variations and adaptations of organisms in different ecosystems
- 12D** Recognize that long-term survival of species is dependent on changing resource bases that are limited
- 12F** Describe how environmental change can impact ecosystem stability

instructional content:

- ✦ Habitat versus niche
 - Competitive exclusion
- ✦ Community interactions
 - Competition
 - Predation
 - Mutualism
 - Commensalism
 - Parasitism
- ✦ Succession
 - Primary succession
 - Secondary succession
- ✦ Biomes
 - Climate factors
 - Major vegetation
 - Influence of latitude
- ✦ Ecosystem stability
 - Human impact

learning outcomes students will:

- Use all content and scientific process skills learned earlier in the course
- Locate and describe each major biome on a world map
- Explain how biomes are classified according to major vegetation type
- Describe the factors that affect distribution of plant species within an environment
- Relate the influence of latitude and local climate in the distribution of world biomes
- Describe examples of different adaptations of plants and animals to specific biomes
- Define the terms mutualism, commensalism, parasitism and provide examples of each type of interaction
- Explain the concept of ecological succession
- Distinguish between primary and secondary succession
- Describe the importance of pioneer species
- Explain the relationship of biodiversity and ecosystem stability
- Describe how human activities impact ecosystem stability
- Describe conservation methods that can help restore ecosystems



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 A Lesson on Succession Lab Activity **366218**
Ecology Symbiosis Lab Activity **360889**
Ward's Termite Symbiosis Kit **873520**
Ecology Bingo **360972**

Biome Bags Activity **360960**
Ecosystems Challenge Game **360970**
Environmental Situation Cards **177375**
Biomes of the Earth: Core Concepts DVD **745320**