TEKS

- **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
- **11B** Investigate and analyze how organisms, populations, and communities respond to external factors
- **12A** Interpret relationships, including predation, parasitism, commensalism, mutualism, and competition among organisms
- **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:

- + Characteristics of Populations
 - Density
 - Dispersion
- + Population Growth
 - Factors that change population size
 - Exponential growth
 - Logistic growth
 - Carrying capacity
- 🗲 Limits to Growth
 - Density-dependent limiting factors
 - Density-independent limiting factors

learning outcomes students will:

- Use all content and scientific process skills learned earlier in the course
- Differentiate populations and communities
- Identify the characteristics used to describe populations
- Describe factors that affect population size
- Explain carrying capacity of populations
- Describe the relationship between competition and population size
- Explain density-dependent factors and provide examples
- Explain density-independent factors and provide examples

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:

science tools:	
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instructional resources:

Ecology Field Clipboard 6730731

Here Today, Gone Tomorrow: Introduction of Non-Native Species Activity **4797800** Ward's What's in the Quadrat? Field Study Activity **366205**

