

World of 8 Billion Contest Connections to AP Biology Standards

Rainforest Ecosystems

Unit 7 - Natural Selection

- Topic 7.8 - Continuing Evolution
 - EVO-3.A.2 All species have evolved and continue to evolve— a. Genomic changes over time. b. Continuous change in the fossil record. c. Evolution of resistance to antibiotics, pesticides, herbicides, or chemotherapy drugs. d. Pathogens evolve and cause emergent diseases.
- Topic 7.11 - Extinction
 - EVO-3.G Describe factors that lead to the extinction of a population.
 - EVO-3.H Explain how the risk of extinction is affected by changes in the environment.
- Topic 7.12 - Variations in Populations
 - SYI-3.D Explain how the genetic diversity of a species or population affects its ability to withstand environmental pressures.

Unit 8 - Ecology

- Topic 8.3 - Population Ecology
 - SYI-1.G Describe factors that influence growth dynamics of populations.
- Topic 8.5 - Community Ecology
 - ENE-4.A Describe the structure of a community according to its species composition and diversity.
- Topic 8.6 - Biodiversity
 - SYI-3.F Describe the relationship between ecosystem diversity and its resilience to changes in the environment.
 - SYI-3.G Explain how the addition or removal of any component of an ecosystem will affect its overall short-term and long term structure.
- Topic 8.7 - Disruptions to Ecosystems
 - SYI-2.B.1 The distribution of local and global ecosystems changes over time.
 - SYI-2.B.2 Human impact accelerates change at local and global levels— a. The introduction of new diseases can devastate native species. b. Habitat change can occur because of human activity.