

# Conifer Drought Response Curriculum

<https://klamathmountains.org/conifer-response-to-drought/>

NGSS Alignment

## [HS-LS2-2 Ecosystems: Interactions, Energy, and Dynamics](#)

Use mathematical representations to support and revise explanations based on evidence about factors affecting biodiversity and populations in ecosystems of different scales.

## [HS-LS2-4 Ecosystems: Interactions, Energy, and Dynamics](#)

Use mathematical representations to support claims for the cycling of matter and flow of energy among organisms in an ecosystem.

## [HS-LS2-5 Ecosystems: Interactions, Energy, and Dynamics](#)

Develop a model to illustrate the role of photosynthesis and cellular respiration in the cycling of carbon among the biosphere, atmosphere, hydrosphere, and geosphere.

## [HS-LS2-6 Ecosystems: Interactions, Energy, and Dynamics](#)

Evaluate the claims, evidence, and reasoning that the complex interactions in ecosystems maintain relatively consistent numbers and types of organisms in stable conditions, but changing conditions may result in a new ecosystem.

## [HS-LS2-7 Ecosystems: Interactions, Energy, and Dynamics](#)

Design, evaluate, and refine a solution for reducing the impacts of human activities on the environment and biodiversity.\*

## [HS-LS2-8 Ecosystems: Interactions, Energy, and Dynamics](#)

Evaluate evidence for the role of group behavior on individual and species' chances to survive and reproduce.

## [HS-LS4-4 Biological Evolution: Unity and Diversity](#)

Construct an explanation based on evidence for how natural selection leads to adaptation of populations.

## [HS-ESS2-4 Earth's Systems](#)

Use a model to describe how variations in the flow of energy into and out of Earth's systems result in changes in climate.

## [HS-ESS3-1 Earth and Human Activity](#)

Construct an explanation based on evidence for how the availability of natural resources, occurrence of natural hazards, and changes in climate have influenced human activity.

## [HS-ESS3-3 Earth and Human Activity](#)

Create a computational simulation to illustrate the relationships among management of natural resources, the sustainability of human populations, and biodiversity.

## [HS-ESS3-5 Earth and Human Activity](#)

Analyze geoscience data and the results from global climate models to make an evidence-based forecast of the current rate of global or regional climate change and associated future impacts to Earth systems.