

# Creating An Ecosystem

## Summary

In this activity students will design hypothetical ecosystems based on the random drawing of abiotic factors. They will make a picture to display their information.

## Time Frame

1 class periods of 60 minutes each

## Group Size

Individual

## Materials

- [slips of paper \(attached\)](#)  
Each student will need 1 slip of each factor)
- Biology textbooks
- construction paper
- colored pencils

## Student Prior Knowledge

Students should understand the words biotic and abiotic.

## Instructional Procedures

- Label four buckets: Soil, temperature, precipitation, elevation.
- Have students draw randomly from the buckets as they walk into class.
- Tell students that using the random abiotic factors they have selected, they should create an ecosystem that would contain these factors.
- They should list the type of organisms that would live there, including plants, animals, decomposers and write a 2 paragraph explanation of how these factors interact.
- Give students time to draw their pictures.

## Assessment Plan

### Scoring Guide:

- Students listed populations that correctly fit their abiotic factors.....15 pts
- Paragraphs are well thought out and complete.....20 pts
- Picture of ecosystem correctly displays biotic and abiotic factors....10 pts
- Student participated.....10 pts

## Bibliography

Lesson Design by Jordan School District Teachers and Staff.

## Authors

[Utah LessonPlans](#)