

# 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](#)