

# Carbon Cycle Web Game

## Summary

Students will explore a web game that identifies sources of carbon and the changes it goes through as it travels the carbon cycle.

## Time Frame

1 class periods of 45 minutes each

## Group Size

Individual

## Materials

- computers with Internet access
- [student worksheet](#)  
(attached)

## Background for Teachers

This is a good introductory lesson.

## Instructional Procedures

- Hand out student sheet (attached).
- Go over the procedures.
- Have students log on to the following website: [Carbon Cycle Game](#)
- Give students time to work
- Discuss analysis questions.

## Assessment Plan

### Answers:

- 0.04%
- CO<sub>2</sub>, water vapor, methane & nitrous oxide -- all these molecules vibrate when they absorb heat, they help keep heat in the atmosphere
- 3%
- Photosynthesis is the process by which plants or other autotrophs take water and carbon dioxide and change it into sugar and oxygen
- 65%
- phytoplankton
- answers will vary
- No, carbon will cycle forever
- Answers will vary
- More greenhouse gases in the atmosphere

## Bibliography

Lesson Design by Jordan School District Teachers and Staff.

## Authors

[Utah LessonPlans](#)