Env Sci 11.1

Goals

- * Characterize the water cycle
- * Describe the carbon, water, nitrogen, and phosphorus cycles

Plan

The story of water (10 min)

Activity: Water molecules in the room will move and change based on conditions (20 min)

Carbon cycle (10 min)

Video: The global carbon cycle (10 min)

Nitrogen cycle (10 min)

Video: Nitrogen and phosphous cycle (10 min)

Phosphous cycle (10 min)

Video: The ghost town that collapsed the poop industry(10 min)

HW: Coney et al 2009. Questions 1) How does an increase in nitrogen and phosphorous affect ecosystems? 2) According to the paper, how can this be controlled or managed?

Env Sci 11.2

Goals

* Review the geochemical cycles (kahoot)

Students will be able to identify the four main geochemical cycles

Students will describe how each of them cycles the materials through the environment

HW: Illustrate the cycle of your choice, including pictures

Env Sci 11.3

Quiz: Geochemical cycles

Reading: feedback loops in nature