ELL Ecology Syllabus

Mrs. Lewis

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Extra Help Mondays after school

Course Description:

Ecology is the study of how organisms interact with each other and their environment at the population, community, and ecosystem levels. Students will acquire an “ecological literacy” about how the natural world works, and develop an understanding of how scientific methods are used to construct ecological knowledge.

Goals for Ecology:

Students will develop an understanding of the world around them and how organisms interact with the environment they live in.

* Students will be able to use this knowledge in order to describe ecological levels of organization in our biosphere and to recognize interactions and relationships in an ecosystem.
* This year we will investigate such areas as -
  + Ecological Organization
  + Abiotic vs Biotic Factors
  + Energy Flow through an Ecosystem (Food chains, webs and pyramids)
  + Biotic Interactions in an Ecosystem (Competition, Predation and Symbiosis)
  + Recycling of Matter Through an Ecosystem (Water Cycle, Carbon Cycle, Oxygen Cycle and Nitrogen Cycle)
  + Response of an Ecosystem to Natural and Human Disturbances (Climate Change, Nonnative Species and Pollution)
  + The Effects of Limiting Factors on a Population (Population Dynamics, Potential Species Extinction)

Materials Required

Students are required to have the following:

* Lined paper/Notebook
* Pocket folder
* Writing utensils (blue or black pens or pencils)
* Highlighter

Assessment

Students will be assessed on class work, quizzes, tests, labs, class participation and homework.

Grades are weighted as follows:

* Tests and quizzes = 40%
* Labs and Participation= 25%
* Classwork = 25%.
* Homework = 10%