



Humanities and the Sunshine State

What Sustains Us?

Florida Ecosystems in an Era of Rapid Change

University of Florida 20-24 June, 2016

ACTION PLAN TEMPLATE

Teacher(s):

Grade(s): 3-5

Subject(s): Lang Arts, Science, Math

Title of Lesson:

Interdependence btw a frog & a bromeliad
or
TANKS FOR THE WATER, Mr. Bromeliad, ~~said~~ stated Mrs. Frog!

Learning Objectives:

- Students will graph species of animals/invertebrates
- Students will measure water in a bromeliad tank
- Students will understand symbiotic relationships btw different organisms
- Students will understand and verbalize the consequences of change in an ecosystem (system thinking)

Standards Addressed:

- organisms & environment
- characteristics of organisms

LITERACY STANDARDS

MATH STANDARDS

Lesson Outline:

- 3 trips to Selby Gardens
 - 1st trip Bromeliad tank experience
 - drawing chosen bromeliad
 - graphing all that is found in bromeliad tank
 - returning to school! looking for bromeliad species @ school & then home.
- 2nd trip
 - redraw chosen bromeliad noting any changes
 - find other similar bromeliads; different bromeliads
- 3rd trip
 - 3rd version of bromeliad - over -
 - start creating a story about, "WHAT IF?"

Systems thinking connection (learning habits and/or tools used):

What if?

Could/Should this be in NARRATIVE

Learning Strategies:

- cooperative group gathering data of bromeliad tank inhabitants
- = individual responsibility to write short story about frog & bromeliad

Science Concept(s):

Ecosystems
symbiotic relationship

How Does the size of Bromeliad relate to the volume of water in tank

Humanities Concept(s):

- writing a narrative infusing the learnings of symbiosis of frog & bromeliad
- Pictures included?

Student Assessment Strategies:

summative

- complete a short journal of 3 copies of a plant, graph of inhabitants

Benefit to my students:

Symbiosis, in school
@ home
in nature

Formative
symbiotic relationships

STUDENT
GENERATES

EASY, Medium,
Unfamiliar
↓
Bromeliad
Frog

Resources and Materials (supplies needed for activities):