ACTION PLAN TEMPLATE

Teacher(s):

Grade(s): 3-5

Subject(s): Language Arts, Science, Math

Title of Lesson:
Interdependence: btw a frog & a bromeliad.

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

Lesson Outline:
- 3 trips to Selby Gardens
  1st trip: Bromeliad tank experience
  - choosing chosen bromeliad
  - drawing 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?"

MATH STANDARDS
- GRAPHING
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 faith inhabitants
- individual responsibility to write short story about frog & bromeliad

Science Concept(s):
- Ecosystem
- Symbiotic relationship

How does the size of bromeliad relate to the volume of water in tank

Humanities Concept(s):
- writing a narrative infusing the learning 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

Resources and Materials (supplies needed for activities):