



HUMANITIES AND THE SUNSHINE STATE

TEACHING FLORIDA'S CLIMATES

In partnership with the Florida Humanities Council

JUNE 15-29, 2018 UNIVERSITY OF FLORIDA

ACTION PLAN TEMPLATE

Teacher(s): Judy Woying

Grade(s): 10-12

Subject(s): Chemistry

Title of Lesson:

Learning Objectives:

To understand the connection of climate change to changes in salinity in vulnerable areas such as our St. Johns water district

Standards Addressed (if applicable):

SC.912.P.8.2 Physical properties (solutions)

SC.912.P.8.9 Molarity and moles

SC.912.P.12.12 Concentration of solution

Lesson Outline:

1. Introduce climate change with video or article (possibly a compilation of information received here and workshop)
2. Discuss seahorse key with information and resources yet to be received from Dr. Mike Allen of IFAS (he has emailed me a promise of such)
3. Lab experiment using molarity calculation to result in varying salt concentrations. Use food color to visualize.

Learning Strategies:

Reading scientific articles

Group working in lab/experiments

Science Concept(s):

Molarity

Solutions

Physical change

Humanities Concept(s):

Our actions for the furthering of our comfort and greed will physically change our environment

Technique(s)/Resource(s) Incorporated from Teaching Florida's Climates Workshop:

Will research possible field trips to estuaries closer to Seminole County similar to seahorse key

Student Assessment Strategies:

Benefit to my students:

Resources and Materials (supplies needed for activities):