



Seaquaria Lesson Plan (draft)

Connections

Lesson Title: **Brine Shrimp Rearing** Grade Level: **1** Date: **2007**
Teacher: **Elli Reilander** School: **Rogers Elementary**
Contact Phone: Contact e-mail:
Subject Areas: Language Fine Arts Math Science PE/Health Personal Planning French Social Studies
Previous Lesson: Next Lesson:

SETTING THE SCENE

Theme: Responsibility
Goal (objective): To teach responsibility to a younger audience
Activity: Hatching and raising brine shrimp, filling out of simplified data sheet
Observations of brine shrimp through daily data collection by marine teams. Could also equate to needs of an organism compared to human needs (to draw link to health and science curriculum such as Human Body
Connecting to Experience: Studies).
Initial Question: Why are brine shrimp so important?

THE LESSON

Materials Required:

1. One bucket, small aquarium or 2 litre pop bottle (approx \$5.00 or less)
2. One small air pump (approx. \$10.00)
3. Air line tubing (to agitate the water)
4. Small, fine mesh dip net
5. Light source (ie. a desk lamp)

Procedure:

introduction: Pour a 1:1 mixture of seawater and tap water into the container (bucket, tank or pop bottle)
-if using tap water let it sit for 24hrs before using to allow some of the chemicals to evaporate out
-allow your 1:1 solution to heat up to about 25-28°C
Add ½ tsp. eggs
Put air line into bottom of container (no air stone is needed!)
Turn on the air pump
The water will evaporate from the container so add more seawater to the container slowly over the next few days, this will also raise the salinity in hopes to increase survivorship when introduced into the Seaquaria
Brine shrimp will begin to hatch out in approx. 18 hrs.
Collect them in a fine mesh dip net and transfer them to the Seaquarium

body: Initial set up will be done with members of the existing SeaTeam then they will teach the younger students how to care for the tank, as well as why the brine shrimp are important for the Seaquarium.

Close: Younger students, under teacher supervision, will care for the brine shrimp and then have the responsibility of feeding the brine shrimp to the larger animals in the Seaquarium.

REFLECTION

Student: (Discussion) related to goal, metacognitive or thinking about your thinking, new ideas.

What do you think now?

Teacher: Where do we want to go from here? Future Directions and Strategies to get there. Variations, lead up. This project could then lead into discussions of life cycles and the food chain.