

LESSON PLAN

M. R. Fridman – Branford School, Branford, FL

Lesson Title:

Grade Level: 2, 3, or 4

Topic: Testing protocol

Time Required: 30-45 minutes

Objectives: Students will demonstrate correct testing procedures for water samples.

Materials:

- 1 eye dropper per group
- 1 small plastic pill bottle with top per group
- 1 small plastic drink bottle (empty) for waste water per group
- 1 small plastic drink bottle with tap water to simulate distilled water per group
- 3 packages of Kool-Aid® - red, yellow, green
- 3 bottles of water to mix Kool-Aid®

Procedure:

1. Mix Kool-Aid® and pour into small pill bottle so you have 1 per group. This simulates your chemicals.
2. Assign class into groups (3 to 5 per group) and assign roles...i.e. recorder, materials, time keeper, etc ...
3. Model correct analytical procedures for entire class.
4. Allow groups to practice correct procedures.
5. Evaluate group performance as you float from group to group. If unsure have the group demonstrate the procedure for you.

Data:

Questions: Each group must conclude the activity by submitting written responses to:

1. Why do we keep our hand away from our faces?
2. Why do we use waste water bottles?
3. Why is it important to follow each step carefully?

These may be done individually for a grade.