

LESSON PLAN

David Evans – Adams Junior High, Tampa, FL

Lesson Title: Contaminated Water In Our Environment

Grade Level: 7, 8, 9

Topic: Bad water

Time Required: 1 hour

Objectives: To let students use the test kits on “bad” water samples supplied by the teacher. The students will see “good” and “bad” water samples.

Materials:

- 1) Ammonia hydroxide
- 2) Tannic acid
- 3) Fertilizer (multiple kinds)
 - A) Miracle Gro[®]
 - B) Pellet
 - C) Soil
- 4) Pond water
- 5) Salt water (ocean)
- 6) Distilled water

Procedure: Mix 6 different containers of each liquid and label them A, B, C, D, E, and F. Have the students analyze the samples and record their results in the data chart on below. Let them figure out which ones are “contaminated” and explain why they think it is “bad”. Also, judging on what they found to be the contaminant(s) in the sample, have the students explain what possibly could have caused this.

Data:	Chemical Test Results						Good/Bad
	Letter	Samples					
		Nitrate	Phos.	Nitrite	Amm.	pH	D.O.
	A						
	B						
	C						
	D						
	E						
	F						

Questions:

- 1) Which ones are “safe” for plant/animal life?**
- 2) List things from home that are potentially major pollution problems.**