

Name: \_\_\_\_\_

Date: \_\_\_\_\_



## Student Post-Test

**Instructions:** Water quality data was collected from a water source over a two month period and organized into the Data Collection Table below. Using this data, answer the following questions to the best of your ability. Provide as much detail in each answer as possible. Partial credit will be awarded.

**Data Collection Table**

Water Temp. °C	pH	D.O. (ppm)	Nitrates (ppm)	Phosphates (ppm)	BOD (ppm)	CO2 (ppm)	Turbidity (JTU)	Date
10.5	7.3	11.3	1.1	1.1	2	0.3	3	4/5/06
10.8	7	11.3	1.1	0.9	2	0.4	3	4/12/06
11	7	11	1.2	1.2	2	0.2	3	4/19/06
11.5	6.8	11	1.4	1.6	2.1	0.7	4	4/26/06
12.2	6.5	10.8	1.2	1.4	2	0.8	4	5/2/06
12.8	6.3	8.2	6.7	11.2	1.9	0.6	60	5/9/06
13.4	6.3	9.3	1.2	1.7	2	0.5	3	5/16/06
14	6.4	10	1.3	1.4	2	0.4	4	5/23/06
14.8	6.2	10	1.4	1.2	2.1	0.3	3	5/30/06

## Questions

1. Based on the pH levels reported, is this a healthy body of water? Explain your answer.

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2. Are there any changes in phosphate and nitrate levels that you would consider significant in regard to the quality of the water? Explain your answer.

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3. Is there any relationship between Dissolved Oxygen (D.O.) levels and water temperature in the recorded data? Explain your answer and indicate what this information might reveal about the quality or health of the water.

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