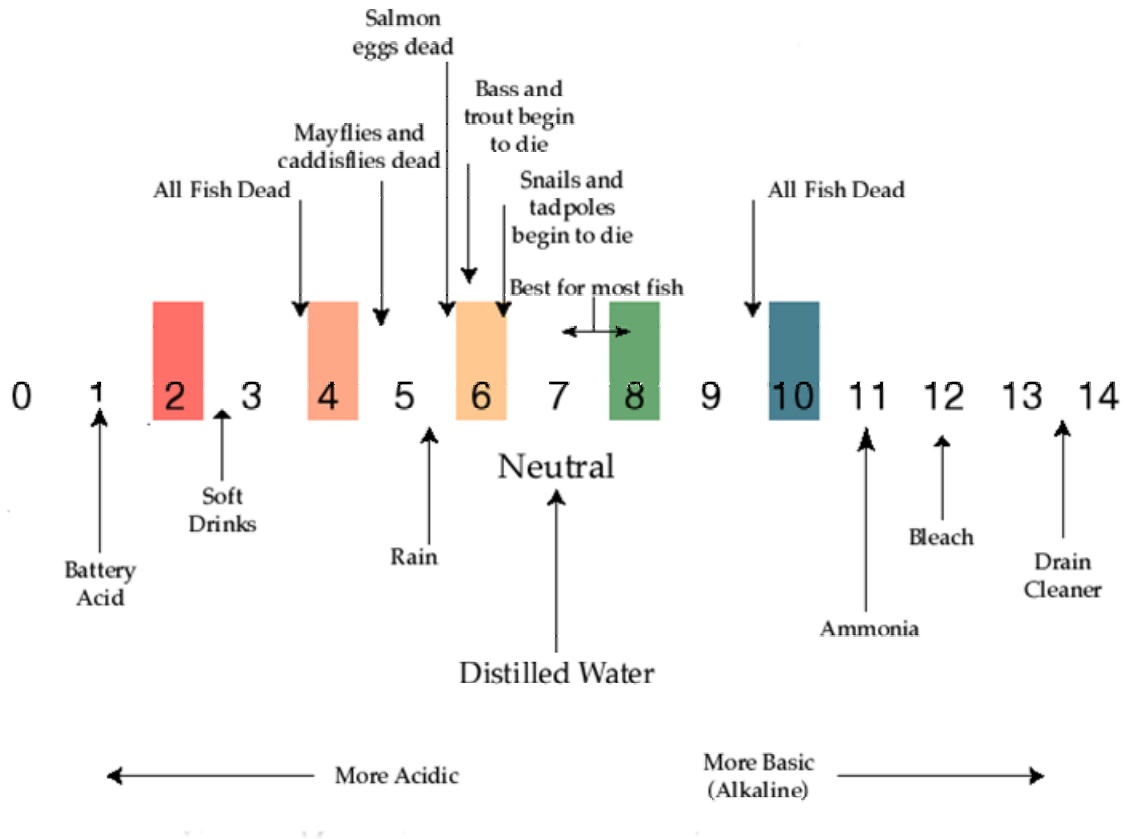
Effect of pH on the organisms of Tule Ponds at Tyson Lagoon



1. Answer the following questions:

On the pH diagram above put in the following information on the table below:

Human blood	7.5	Lye	13
Milk	6.5	Vinegar	3
Carrots	5	Lemon juice	1.5

2. MATERIALS: Limus paper and pH paper

Make a solution of bleach and water. 2 ml of bleach and 2ml of water. Compare limus and pH paper. What is the results.
Make a solution of baking soda and water (1 ml of baking soda with 5 ml of water.

Solution	descriptions

2. MATERIALS: different solutions, pH paper

Determine the pH of the items at your table. You may have to make a solution to determine the pH, if so, directions will be at the bottle.

Solution	pH

3. MATERIALS: 2 different decaying leaves, mortar and pestle; graduated cylinders; water, pH paper

Collect leaves from 2 different types of trees that are beginning to decay. Crush the leaves as fine as you can and make a solution with between 10-25 ml of water. If they are different, can you make a guess of why?

Type of Tree	pH

4. Sample each of the ponds (clear water) and determine the pH using pH paper Describe the day.

Aquatic Area	pH
Pond A	
Pond B	
Pond C	
Tyson Lagoon	

5. Determine the pH of a biologic sample.

Look at the organisms under the microscope and describe the organisms.

Use a solution from the leaves that has the most acidic pH. Mix it into the sample.

Describe what happens?