

Name: _____ per _____

Acids and Bases Lab

Objective: Your goal is to determine if the following solutions (solutions A-E) are acidic, basic, or neutral. First, design a procedure in which you can run tests to determine the makeup of these solutions. Then run your experiments.

Materials: You will have the following materials to work with. If you would like a material that is not listed below please ask your instructor.

- Twelve-well plate
- Twenty-four-well plate
- Dropper Bottles containing each of the following
 - Phenolphthalein
 - Bromothymol Blue
 - Hydrochloric acid
 - Sodium hydroxide
 - Distilled Water
 - Unknown solutions A-E
- pH paper
- goggles

Questions: Write what question you are trying to test in this experiment?

Part 1: Procedure

Write a procedure to state the list of steps that you will take to test the acidity/basicity of the unknown solutions. Be specific. How will you know that you have successfully classified a solution as either acidic or basic?

Instructor Approval: _____

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Results and Observations: Make a table that shows your results and observations throughout your experiment. Use a ruler to draw the lines in your table.

Conclusion: Write a conclusion that classifies each substance as either an acid, base or neutral. Use the following sentence frame to help you write your conclusion.

We can conclude that _____ because _____.

Claim data

Additional Questions: Go to <https://b.socrative.com/login/student/> and log on to room **4KAONKRL** and answer the questions. Please include your first and last name.

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