

pH Lab

NAME: _____ Period: _____

OBJECTIVES:

To gain familiarity with the use of litmus paper and wide-range pH Test Strips to distinguish the pH of various solutions

MATERIALS:

- wide range pH test strips(various types)
- litmus paper(blue and red)
- unidentified solutions
- safety glasses
- NaOH
- HCl Graph paper

PROCEDURE:

- 1) DO NOT smell, touch, or spill any solutions
- 2) Use forceps to dip strips into solutions or hold strip with forceps while dropping solution on strip with pipette
- 3) Interpret color changes against pH scale on vial/container and record result
- 4) Lay out your test strips on a piece of paper towel from lowest to highest pH
- 5) Create a graph(line graph) of your results on the reverse of this sheet

ANALYSIS QUESTIONS:

- 1) What does pH measure? _____
- 2) What is definition of an acid? _____
- 3) What is definition of a base? _____
- 4) What is the pH of pure water? _____
- 5) What solutions are being used as controls? _____
- 6) What happened to red litmus dipped in base? _____
- 7) What happened to blue litmus dipped in acid? _____
- 8) What do you hypothesize solution C is? _____
- 9) What solution do you hypothesize is a detergent? _____ Is it an acid or base? _____
- 10) Estimate the pH of the following:
Soln A _____ Soln F _____
Soln B _____ Soln G _____
Soln C _____ Soln H _____
Soln D _____ Soln I _____
Soln E _____

