

Name: _____

Date: _____

Determining the pH of Unknown

Objective: To use a variety of indicators to determine the pH of an unknown substance.

Materials:

phenolphthalein

red litmus

blue litmus

bromothymol blue

methyl orange

seltzer (2.9 – 3.3), drain cleaner (14.0), distilled water (7.0), baking soda (8.3), tomatoes (4.0 – 4.5), ammonia (11.0), soap solution (10.0)

You will need to research the colors the above solutions would appear when tested with the indicators given in the materials section. Use that information to determine the approximate pH of the following three solutions based on the data given below. Record your results in the appropriate lab on the web page.

Unknown	Red Litmus	Blue litmus	Bromothymol blue	Methyl orange	Phenolphthalein
DA	red	red	Bright yellow	Deep orange	clear
DB	Blue	Blue	blue	yellow	pink
DC	Red	Blue	Light blue	Light yellow	clear