

# Experiment 8 Pre-Lab an intro to acids + bases 10/25/22

## Materials:

- Plastic reaction surface
- 1x12 well strip
- 1M HCl
- 0.1M NaOH
- chromatography paper
- 24-well tray
- 0.100M HCl
- paper towels
- powdered dry egg shell
- weighing boat.
- 2M HCl
- red cabbage extract
- pipet
- microstirrer
- bromothymol blue (BTB)
- microwipes
- dI water
- indicator
- 1M NaOH
- analytical balance
- ethyl alcohol
- hot tap water.

- Section A: common lab Acids and bases: Physical properties and safe handling.
  - read chart, no procedure.

- Section B: Indicator color probes for acids + bases.

- Procedure: drop 1 drop of red cabbage extract into two wells of a 1x12 well strip. note the color. use pipet to put 1 drop of 0.1M HCl into wells w/ red cabbage extract. stir w/ microstirrer. observe + record color changes. add 1 drop of 0.1M NaOH to another well w/ cabbage extract + stir. observe color change. repeat this mixing acids and bases w/ BTB. what are the differences between BTB + the cabbage extract? Put 2-3 drops of extract onto chromatography paper + blot off extra solution. make 3 or 4 pieces approx 4 cm in length. when pH paper is dry test acid/base/neutral solutions. tape samples in lab notebook.

# Lab Manual Chemistry 111 Penn State

**Shasha Hu**



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