

LG 2 Lab 5-1B Guided Worksheet

Name: _____

TA: _____

Title: _____

Purpose: _____

Hypothesis: *place your IF/THEN statement here:*

If _____

then _____

Materials: List of things the student used in the experiment.

Procedure: (In Point form, **DO NOT** copy the textbook)

Observations:

Create a data table like the one below; describe what the result mean (acidic, basic, neutral, Ph, no affect, etc.-include colour description).

	Magnesium Ribbon	Red Litmus	Blue Litmus	Bromothymol Blue	Indigo Carmine	Methyl Orange
Solution A						
Solution B						
Solution C						
Solution D						

Analyze:

1. List the solutions from most acidic to least acidic (most basic).
2. Which solution do you think was neutral? Explain.
3. You used two bases. Explain how you know which solution was more alkaline (more basic).

LG 2 Lab 5-1B Guided Worksheet

Name: _____

TA: _____

4. How can magnesium metal be used to distinguish between an acid and a base?

Conclude and Apply:

1. A) What colour would each of the five indicators be in a solution that has a pH of 3?

B) What colour would each of the five indicators be in a solution with a pH of 10?
2. Suppose you are asked to put together a test kit to determine whether water taken from a factor waste drain is acidic, basic, or neutral? Your kit can contain only three (3) tests. Which tests would your kit contain? Explain
3. Refer to photo of the lichen *Rocella tinctoria* on page 231 from which litmus is extracted. If *Rocella tinctoria* were ground up and mixed in vinegar, what colour would the solution be?