

Introduction to the pH Scale and Measurement Worksheet

Data Table: Classifying Acids and Bases

Indicator	Solution				
	1	2	3	4	5
	Hydrochloric Acid	Acetic Acid	Distilled Water	Ammonium Hydroxide	Sodium Hydroxide
Phenolphthalein					
Bromthymol Blue					
Phenol Red					
Litmus Paper					
Universal Indicator					
pH Test Paper					

Post-Lab Questions

- How can you use litmus paper to tell whether a solution is an acid or a base? Be specific.
- How can you use phenolphthalein to tell whether a solution is an acid or a base? Be specific.
- Compare the pH data for the solutions that you labeled as acids and bases. What pH values can be assigned to acids and bases, respectively?
- How does pH vary with the “strength” of an acid or base, respectively?
- Complete the following table to summarize the properties of acids and bases.

Indicator	Acid Property	Base Property
Litmus		
Phenolphthalein		
pH value		