

Chemistry Lab Activity 22 – A pH Scale With Various Indicators

Purpose:

- 1) To observe and correlate color changes of various indicators with a pH value.
- 2) To create a pH interpretation table for various indicators.

Procedures:

1. Obtain a pipette $\frac{1}{2}$ filled of each solution with a know pH value.
2. Obtain a pipette $\frac{1}{2}$ filled of each indicator.
3. Place 2 drops if each pH solution in the appropriate well according to Table 1.
4. Place 1 drop, of each indicator in the appropriate well according to Table 1.
5. Observe the wells against a white background and record the colors into Table 1.
1.Note: You may bring a digital camera to take a picture of the well plate with your colored results for inclusion into you formal lab report.
6. Please put back your pipettes in the correct flasks when you have finished.

TABLE 1: pH Scale of Various Indicators

	<i>INDICATORS</i>				
	Bromthymol Blue	Universal Indicator	Phenolphthalein	Blueberry Extract	Cabbage Extract
pH 1					
pH 2					
pH 3					
pH 4					
pH 5					
pH 6					
pH 7					
pH 8					
pH 9					
pH 10					
pH 11					
pH 12					
pH 13					
pH 14					