

NAME: _____ PERIOD: _____

ACTIVITY #16 – ACIDS AND BASES

PURPOSE:

OBSERVATIONS:

I) Bromothymol Blue Observations:

SOLUTION	COLOR	ACID/BASE/NEUTRAL
1 NaOH		
2 HCl		
3 Tap H₂O		
4 Distilled H₂O		
5 Alcohol		
6 Vinegar		
7 Coffee		
8 Shampoo		
9 Ammonia		
10 Mr. Clean		
11 Soda		
12 OJ		
13 DW Det.		
14 Milk		
15 Salt H₂O		

II) Litmus Paper Observations:

<u>Solution</u>	NaOH	HCl	Salt H ₂ O	Tap H ₂ O	Distilled H ₂ O
<u>Colors</u>					

III) PH Paper Observations:

SOLUTION	PH #	H⁺/OH⁻	ACID/BASE/NEUTRAL
1 NaOH			
2 HCl			
3 Tap H₂O			
4 Distilled H₂O			
5 Alcohol			
6 Vinegar			
7 Coffee			
8 Shampoo			
9 Ammonia			
10 Mr. Clean			
11 Soda			
12 OJ			
13 DW Det.			
14 Milk			
15 Salt H₂O			

REPORT:

- 1) **Are all materials acids or bases if they have ions?
Explain.**

- 2) **Which solution was the strongest acid?**

- 3) **Which solution was the strongest base?**

- 4) **Which solution was the weakest acid?**

- 5) **Which solution was the weakest base?**

- 6) **List 3 ways of testing for acids & bases.**

- 7) **Which solution had the highest concentration of H⁺ ions?**

- 8) **Which solution had the highest concentration of OH⁻ ions?**

CONCLUSION: