

Name _____

Date _____

Period _____

Acids & Bases Ws #5: Molarity and pH

	Solution	Name	[H ⁺]	[OH ⁻]	pH	pOH	acid or base
1.	0.0001 M HCl	Hydrochloric acid	10 ⁻⁴	10 ⁻¹⁰	4.0	10.0	Acid
2.	0.001 M NaOH						
3.	1 × 10 ⁻² M Ba(OH) ₂	Barium Hydroxide	5 × 10 ⁻¹³	2 × 10 ⁻²	12.3	1.7	Base
4.	1 × 10 ⁻⁵ M HClO ₄						
5.	0.45 M NH ₄ OH	Ammonium hydroxide	2.22 × 10 ⁻¹⁴	.45	13.65	0.35	Base
6.	2.5 × 10 ⁻³ M Al(OH) ₃						
7.	0.01 M HCl	Hydrochloric acid	10 ⁻²	10 ⁻¹²	2.0	12.0	Acid
8.	5 × 10 ⁻³ M HNO ₃						
9.	1 × 10 ⁻³ M LiOH	Lithium hydroxide	1 × 10 ⁻¹¹	1 × 10 ⁻³	11.0	3.0	Base
10.	2 × 10 ⁻² M HClO ₄						
11.	6 × 10 ⁻³ M Ca(OH) ₂	Calcium hydroxide	8 × 10 ⁻¹³	1. × 10 ⁻²	12.1	1.9	Base
12.	0.155 M HNO ₃						
13.	.0005 M NaOH	Sodium hydroxide	2 × 10 ⁻¹¹	5 × 10 ⁻⁴	10.7	3.3	Base