

5-6 THE pH SCALE

For every 100,000,000,000,000 H⁺ ions at pH 0, there are

For every OH⁻ ion at a pH value approaching pH 0, there are

10,000,000,000,000 H ⁺ ions	← at pH 1 →	10 OH ⁻ ions
1,000,000,000,000 H ⁺ ions	← at pH 2 →	100 OH ⁻ ions
100,000,000,000 H ⁺ ions	← at pH 3 →	1,000 OH ⁻ ions
10,000,000,000 H ⁺ ions	← at pH 4 →	10,000 OH ⁻ ions
1,000,000,000 H ⁺ ions	← at pH 5 →	100,000 OH ⁻ ions
100,000,000 H ⁺ ions	← at pH 6 →	1,000,000 OH ⁻ ions
10,000,000 H⁺ ions	← at pH 7 →	10,000,000 OH⁻ ions
1,000,000 H ⁺ ions	← at pH 8 →	100,000,000 OH ⁻ ions
100,000 H ⁺ ions	← at pH 9 →	1,000,000,000 OH ⁻ ions
10,000 H ⁺ ions	← at pH 10 →	10,000,000,000 OH ⁻ ions
1,000 H ⁺ ions	← at pH 11 →	100,000,000,000 OH ⁻ ions
100 H ⁺ ions	← at pH 12 →	1,000,000,000,000 OH ⁻ ions
10 H ⁺ ions	← at pH 13 →	10,000,000,000,000 OH ⁻ ions
1 H ⁺ ion	← at pH 14 →	100,000,000,000,000 OH ⁻ ions
Approaching 0 H ⁺ ions		

Acid

Bas