

**Introduction to Strong and Weak Acids and Bases PhET Lab** (rev'd 5/2011)*How does the strength of an acid or base affect conductivity/pH?***Introduction:**

When you test your pool's pH, what are those little vials or paper strips telling you? When you hear an acid called "strong" or "weak", what do those terms refer to? In aqueous solutions, compounds can exist as molecules (*undissociated*) or ions (*dissociated*). When an acid or a base exists in solution nearly completely as dissociated ions, we refer to that acid or base as *strong*. A *weak* acid or base will donate ions to the solution, but will remain primarily as undissociated molecules.

**Acid-Base Solutions****Notation:**

**Acids** are abbreviated HA, with the H representing the proton (H<sup>+</sup>) the acid donates to the solution. The A is referred to as the acidic anion (A<sup>-</sup>) that is left in solution as the proton is donated.  $HA \rightleftharpoons H^+ + A^-$

**Strong Bases** are abbreviated MOH, with the OH representing the hydroxide ion (OH<sup>-</sup>) the base donates to the solution. The M is cation (M<sup>+</sup>) that is left in solution as the hydroxide is donated.  $MOH \rightarrow M^+ + OH^-$ .

**Autoionization:**

Even without any acid or base added a very small number of water molecules will form protons (H<sup>+</sup>) and hydroxide ions (OH<sup>-</sup>). The protons will then form **hydronium ions**, the acid ion.



**Procedure:** PhET Simulations → Play With Sims → Chemistry → Acid-Base Solutions → [Run Now!](#)

The concentration of the acids and bases used in the **Introduction** at 0.010 (10<sup>-2</sup>) Molar.

- Begin with a **strong acid** and lower the pH probe into the beaker. What is the pH of this solution?
- Test this strong acid with both pH paper and the conductivity probe. What color does the pH indicator become? Is this strong acid an electrolyte? Does current travel through this solution?
- Repeat the above tests with the weak acid, the strong base, and the weak base, and water. Collect your observations in the table below:

	Strong Acid	Weak Acid	Strong Base	Weak Base	Water
pH meter read (value)	2.00	4.50	12.00	9.50	7.00
pH paper (color)	2 red	4 orange	11 blue	9 green	7 yellow
Conductivity (bright/dim/none)	Bright	dim	10 Right	dim	none
Exists as Mostly (ions/molecules)	ions	ions	molecules	molecules	ions

# Answer Key Small Scale Lab

**Hussin A.Rothana**



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