Lewis Acid	% Ionization	Strong Acid	Anion	Carboxylic Acid
Lewis Base	Weak Base	Buffer	Hydrated Cation	"Common Ion
				Effect"
рН	Weak Acid	Hydrolysis	Binary Acid	
рОН	Strong Base	Cation	Oxyacid	

1.	An acid that consists of an H, O, and one other element, which is a nonmetal, is an:
2.	A base that dissociates completely in a solution is a:
3.	An acid that consists of an H and one other element is a:
4.	An electron pair donor:
5.	The quantity of weak acid that ionizes in a solution, expressed as a percentage:
6.	An acid that only partially dissociates in solution:
7.	A negatively charged ion:
8.	When the water attached to a metal is more acidic than free water molecules, the ion becomes a:
9.	An acid that dissociates completely in solution:
10.	An electron pair acceptor:
11.	A positively charged ion:
12.	A base that only partially dissociates in solution:
13.	An organic acid that contains the -COOH group
	Represents the hydrogen ion concentration:
15.	If we have a solution containing several types of ions and equilibrium is achieved, when we add another species containing the same ion, to the existing solution, reduction in the degree of dissociation of the first species is observed.
16.	A solution of a weak conjugate acid-base pair that resists drastic changes in pH:

17. The chemical breakdown of a compound due to its reaction with water:

18. Represents the hydronium ion concentration:

1. What is the pH of a solution of 0.11M NaC₂H₃O₂ and 0.090M HC₂H₃O₂? $K_a = 1.8 \times 10^{-5}$

$$\chi = 1.47 \times 10^{-5}$$

-109(1.47×10⁻⁵)
pH = 4.83

2. What is the pH of a buffer that is 0.14M HF ($pK_a = 3.15$) and 0.071M KF? $K_a = 7.0 \times 10^{-4}$

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$$K_{b} = \frac{1}{100} = \frac{1}{100$$

3. What is the pH of a solution that has an H⁺ concentration of 0.7M? Is this solution acidic or basic?

4. In a 0.100M solution of HA where 1.23% is ionized, what is the K_a?

5. Calculate the pH of 2.00M nitrous acid, HNO₂. $(K_a = 4.0 \times 10^{-4})$

$$HNO_{2}$$
 + $H_{2}O \rightleftharpoons NO_{2} - + H_{3}O^{+}$ (HNO_{2})
 $T = \frac{1}{2.00} = \frac{1}$

6. What is the pH of a buffer that has 0.700M HOAc and 0.600M OAc⁻?

$$16 = 1.8 \times 10^{-5}$$
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