

PhET Computer Simulation Activity: Acid-Base Solutions

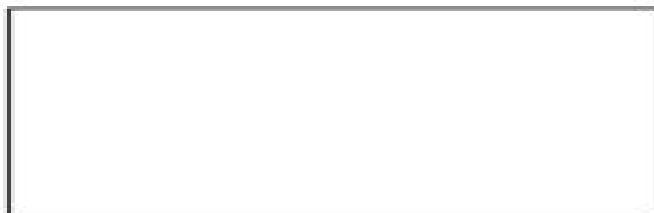
Introduction

1. Take a few minutes to **play** with the sim (<http://phet.colorado.edu/en/simulation/acid-base-solutions>). Check out both the Introduction and Custom Solution tabs. **Explore** what factors affect pH. **List** the factors you found that affect pH.

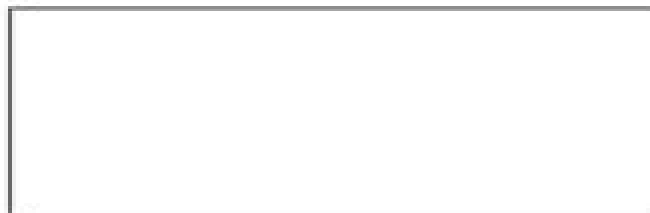
Investigating Concentration Changes

2. a. **Create** a strong acid solution in the "Custom Solution" tab.
b. **Draw** bar graphs for Initial and Equilibrium concentrations.
Hints: No calculator needed – try the 'Equilibrium Concentration' view.
Don't forget to label your graphs!

Initial Concentrations



Equilibrium Concentrations



- c. What equilibrium concentrations are affected by changing the initial concentration?

3. a. **Create** a weak acid solution in the "Custom Solution" tab.
b. **Draw** bar graphs for Initial and Equilibrium concentrations.
Hints: No calculator needed – try the 'Equilibrium Concentration' view.
Don't forget to label your graphs!

Initial Concentrations



Equilibrium Concentrations



- c. What equilibrium concentrations are affected by changing the initial concentration?

4. Are your results for the strong and weak acid in questions 2 and 3 consistent with the definition of strong and weak acids?

Phet Charles Law Computer Activity Answers

M Mark



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