

**Number of Development Hours:** 1

**Name of Development Provider:** Flinn Scientific, Inc

**Educator's Information:** Joe Schoolteacher  
Community High School  
770 N. Raddant Rd.  
Batavia, IL 60510

**Title of Development Activity:** **Content Area:** Acids and Bases

**Product Title:** Buffers

**Description of Development Activity:** In-depth online instruction of how to use the following activities to teach specific Chemistry topics. Detailed handouts and assessment included.

**Content Description:** Vinegar, aspirin, Vitamin C, baking soda and ammonia—many common substances are acids and bases. Investigate the properties, principles and applications of acid-base chemistry.

**Product Description:** Buffers provide an essential acid-base balance in consumer products, foods, lakes, streams and even living cells. What are buffers made of and how do they work?

**Episode 1 Running Time 13:47** **Bet on Buffers** — At the very least, don't ever bet against them. Not when it comes to pH! Discover why buffers have a remarkable capacity to resist changes in pH.

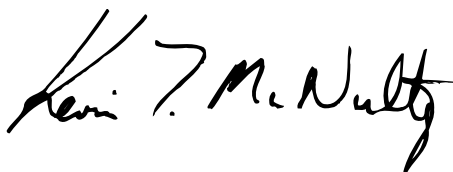
**Episode 2 Running Time 8:26** **Buffering of Lakes** — An "acid rainfall" is poured through a column of marble chips to illustrate the formation of a buffer in lakes or streams with a limestone bed.

**Episode 3 Running Time 12:56** **Buffer Balancing Acts** — The ability of a phosphate buffer and Alka-Seltzer® to resist pH changes highlights the physiological role of buffers within cells and in consumer products.

**Date:** 3/24/09

**Location:** www.flinnsci.com

**Presenters:** Penney Sconzo, Kathleen Dombrink, Irene Cesa



Kevin T. McNulty — VP Marketing and Sales