Heroes

Sophomore chemistry students

Topic

Acids & Bases

Upon Return (outcomes)

- 1. Define and model weak and strong acid and base.
- 2. Complete, balance and model acid-base neutralization reactions.
- 3. Prepare and perform acid-base titration.
- 4. Determine concentration of acids and bases from titration.
- 5. Leverage titration to determine total acidity of wine sample.

Journey

Phase	Description	Technology
1. Call to Adventure (Engage)	Play clip from Fight Club. Desired questions from students: What is the "white stuff"? Is that an acid or base burn? Why does the stuff in the bottle not burn him?	http://www.vibby.com
2. Threshold Challenge (Explore)	Using the materials provided, explain what occurred in the clip from <i>Fight Club</i> . Materials: 0.1M NaOH. Household Vinegar. pH Strips. Assorted Glassware.	http://www.drive.google.com
3. Meeting the Mentor (Explain)	Screencast defining and providing examples of: Strong and weak acids and bases. Acid-base titration. Titration equation.	http://www.quicktime.com http://www.drive.google.com
4. Transformation of Hero (Extend)	Use titration to determine the concentration of an acid and a base. Use titration to determine the total acidity of an acid.	http://www.blogger.com
5. Return Home (Evaluate)	Individual quiz and blog post. Group titration lab practical.	http://www.blogger.com http://www.drive.google.com http://www.youtube.com