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Student Exploration: pH Analysis

Vocabulary: acid, acidic, alkaline, base, indicator, neutral, pH

Prior Knowledge Questions (Do these BEFORE using the Gizmo.)

- Acids** are substances that produce hydrogen ions (H^+) when dissolved in water. Lemon juice is an example of an acid.
 - What does lemon juice taste like? It tastes sharp and tangy.
 - What does it feel like if lemon juice gets in your eye? It would sting and burn your eyes.
- Bases** are substances that produce hydroxide ions (OH^-) when dissolved in water. Hand soap is an example of a base.
 - What does soap feel like? It is slippery and smooth.
 - What does soap taste like? It tastes bitter.
 - What does it feel like if soap gets in your eye? It stings and burns your eyes.

Gizmo Warm-up

The strength of an acid or base is measured on the **pH** scale. The term "pH" is short for "potential of hydrogen." It is a measure of how many excess H^+ ions there are in a solution. The pH scale runs from 0 to 14, with 0 representing the highest concentration of hydrogen ions. **Acidic** substances have a pH below 7, while **alkaline** substances (bases) have a pH above 7. Pure water has a pH of 7 and is considered **neutral**.

The *pH Analysis* Gizmo allows you to find the pH of a variety of liquids. In the Gizmo, check that the **Substance in the tube** is **Ammonia**, and click **Test**. Wait until the animation is finished.



- Indicators** change color in acids or bases. What is the color of the pH paper? Dark Blue
- Compare the paper to the **pH color chart**. What is the pH of ammonia? 11
- Is ammonia acidic or alkaline? Alkaline

Student Exploration Ph Analysis Answer

**Matthias Stadler, Frank Fischer, Arthur
C. Graesser**

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Educational Values and Cognitive Instruction Lorna Idol, Beau Fly Jones, 2013-12-16 This volume is a comprehensive guide to state of the art research on thinking cognitive instruction social values and reform Cognitive instruction for at risk students is discussed in great detail along with a thorough examination of the teaching of thinking skills from the viewpoint of educational values and school culture The issues of thinking learning and cognitive instruction are linked to the educational reform movement from numerous perspectives Specifically the reader can better anticipate which aspects of research on thinking will conflict with existing paradigms and which aspects of schooling will be most resistant to change

Artificial Intelligence in Education. Posters and Late Breaking Results, Workshops and Tutorials, Industry and Innovation Tracks, Practitioners' and Doctoral Consortium Maria Mercedes Rodrigo, Noburu Matsuda, Alexandra I. Cristea, Vania Dimitrova, 2022-07-25 This two volume set LNAI 13355 and 13356 constitutes the refereed proceedings of the 23rd International Conference on Artificial Intelligence in Education AIED 2022 held in Durham UK in July 2022 The 40 full papers and 40 short papers presented together with 2 keynotes 6 industry papers 12 DC papers 6 Workshop papers 10 Practitioner papers 97 Posters and Late Breaking Results were carefully reviewed and selected from 243 submissions The conference presents topics such as intelligent systems and the cognitive sciences for the improvement and advancement of education the science and engineering of intelligent interactive learning systems The theme for the AIED 2022 conference was AI in Education Bridging the gap between academia business and non pro t in preparing future proof generations towards ubiquitous AI

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