

Name: _____

Date: _____

Student Exploration: pH Analysis

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

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

1. **Acids** are substances that produce hydrogen ions (H^+) when dissolved in water. Lemon juice is an example of an acid.

- A. What does lemon juice taste like? sour, tangy taste
- B. What does it feel like if lemon juice gets in your eye? Sting and burn

2. **Bases** are substances that produce hydroxide ions (OH^-) when dissolved in water. Hand soap is an example of a base.

- A. What does soap feel like? Slippery, smooth
- B. What does soap taste like? Bitter
- C. What does it feel like if soap gets in your eye? Burns

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.



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

Answers Ph Gizmo

Jicheng Xie



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The Elementary School Library Collection, Phases 1-2-3, 2000 *New Scientist*, 2006 The Harbinger: Patchwork Neerja Gaurie, 22-10-13 A solitary woman milieu 21st century India an educated trendy modern and apparently free spirited one at that describes her passage through life by jottings that reflect her moods travails and happy moments intricately woven that emerge as patchwork A story unravels with a day to day account of life managed and lived while she goes through a tumultuous divorce proceeding The setting is in sylvan and pristine forested and mountainous surroundings a solitary figure leading a soulful solitary life This could be the story of any woman anywhere How Everything Works Louis A. Bloomfield, 2006-04-21 By explaining the physics behind ordinary objects this book unravels the mysteries of how things work Using familiar examples from everyday life and modern technology this book explains the seemingly inexplicable phenomena we encounter all around us As it examines everything from roller coasters to radio musical instruments to makeup and knuckleballs to nuclear weapons How Everything Works provides the answers to such questions as why the sky is blue why metal is a problem in microwave ovens and why some clothes require dry cleaning With fascinating and fun real life examples that provide the answers to scores of questions How Everything Works is nothing short of a user s manual to our everyday world *Vagabonds* Hao Jingfang, 2021-03-02 A century after the Martian war of independence a group of kids are sent to Earth as delegates from Mars but when they return home they are caught between the two worlds unable to reconcile the beauty and culture of Mars with their experiences on Earth in this thoughtful debut Kirkus Reviews from Hugo Award winning author Hao Jingfang This masterful narrative Booklist starred review is set on Earth in the wake of a second civil war not between two factions in one nation but two factions in one solar system Mars and Earth In an attempt to repair increasing tensions the colonies of Mars send a group of young people to live on Earth to help reconcile humanity But the group finds itself with no real home no friends and fractured allegiances as they struggle to find a sense of community and identity trapped between two worlds **The New Roman Empire** Robert Bennett, 2003-09 A chance meeting at a seedy south side Chicago sports bar will lead sometime sleuth Dillon McDonough into a tight tale of intrigue obsession and violence When the under aged daughter of a United States Senator enters McDonough s life he sees her as the only means out of his current financial dilemma Accepting a cash retainer McDonough delves his into his client s checkered past and her obsession with a mysterious sex club called The New Roman Empire The hunt for the club will take McDonough to an uptown brothel a suburban sanitarium and finally to an abandoned steel mill where he is nearly incinerated by an arsonist determined to throw him off the trail When his client turns up dead McDonough becomes the police s prime suspect and the target of the real murderer who is bent on keeping both his identity and the location of The New Roman Empire a dark secret **Men's Health**, 2006-12 Men s Health magazine contains daily tips and articles on fitness nutrition relationships sex career and lifestyle *Electric Motor Experiments* Ed Sobey, Ph.D., 2011-01-01 You can find motors in

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