

Alien Juice Bar Lab - Exploring Acids and Bases

Name _____
Hour _____ Lab Station _____

Background

Many substances we use every day can be considered acids or bases. Most are harmless. Some, however, can be dangerous due to their "strength" even though they might be items we have in our own homes. Characteristics of acids include a sour taste, and bases can taste bitter and feel slippery. Not all acids are meant to be consumed. Some can be extremely dangerous in fact, and even burn your skin so it is important to use them wisely and carefully. In order to measure the strength of an acid or base, you use a pH scale like below.



The strength of the pH scale is determined by the concentration of hydrogen (H^+) ions or hydroxide (OH^-) ions. More hydrogen ions would make an acid and more hydroxide ions would make a base (alkaline). The amount of each determines the strength of the acid or base. The pH scale ranges from 1-14, with 7 being "neutral," or the same concentration of each. The lower numbers indicate how strong the acid is and the higher numbers indicate how strong the base is.

There are different ways you can measure the strength of an acid or base. You can use the juice from red cabbage as an indicator or pH litmus paper. Depending on the strength of the substance, it will create a color change in the juice or on the litmus paper. You will use both types in this lab to determine the strength of common acids and bases.

Color Scale for Cabbage Juice Indicator:

Color:	Pink	Dark red	Violet	Blue	Blue-Green	Green-Yellow
Approx. pH	1-2	3-4	5-7	8	9-10	11-12
Acid/Base	Acid	Acid	Acid/Neutral	Base	Base	Base

Color Scale for Litmus Paper:

**Use the color chart at your lab station.

Materials

Beaker of red cabbage "juice" with pipette
Plastic cups with several liquids to test with pipettes
Clean mixing tray with "wells"

pH litmus paper (from your teacher)
pH color scale
Dixie cup for used (waste) litmus paper

Prelab predictions

Think of each of the liquids that will be tested below. Predict whether you think they will be acidic, neutral, or basic. (think of the properties of acids and bases)

Hand sanitizer	acidic	neutral	basic
Vinegar	acidic	neutral	basic
Shampoo	acidic	neutral	basic
Conditioner	acidic	neutral	basic
Lemon Juice	acidic	neutral	basic
Laundry Detergent	acidic	neutral	basic
Water	acidic	neutral	basic

Alien Juice Bar Answer Key

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Alien Juice Bar Answer Key:

Backpacker ,2007-09 Backpacker brings the outdoors straight to the reader s doorstep inspiring and enabling them to go more places and enjoy nature more often The authority on active adventure Backpacker is the world s first GPS enabled magazine and the only magazine whose editors personally test the hiking trails camping gear and survival tips they publish Backpacker s Editors Choice Awards an industry honor recognizing design feature and product innovation has become the gold standard against which all other outdoor industry awards are measured Hawaiian Sunsets and Miss Edna's Coconut Dream Cake Jefferson Davis,2011 The Video Source Book David J. WEINER,1990 **New York Magazine** ,1997-06-23 New York magazine was born in 1968 after a run as an insert of the New York Herald Tribune and quickly made a place for itself as the trusted resource for readers across the country With award winning writing and photography covering everything from politics and food to theater and fashion the magazine s consistent mission has been to reflect back to its audience the energy and excitement of the city itself while celebrating New York as both a place and an idea *Atlanta* ,2004-05 Atlanta magazine s editorial mission is to engage our community through provocative writing authoritative reporting and superlative design that illuminate the people the issues the trends and the events that define our city The magazine informs challenges and entertains our readers each month while helping them make intelligent choices not only about what they do and where they go but what they think about matters of importance to the community and the region Atlanta magazine s editorial mission is to engage our community through provocative writing authoritative reporting and superlative design that illuminate the people the issues the trends and the events that define our city The magazine informs challenges and entertains our readers each month while helping them make intelligent choices not only about what they do and where they go but what they think about matters of importance to the community and the region **Los Angeles Magazine** ,2002-06 Los Angeles magazine is a regional magazine of national stature Our combination of award winning feature writing investigative reporting service journalism and design covers the people lifestyle culture entertainment fashion art and architecture and news that define Southern California Started in the spring of 1961 Los Angeles magazine has been addressing the needs and interests of our region for 48 years The magazine continues to be the definitive resource for an affluent population that is intensely interested in a lifestyle that is uniquely Southern Californian **Journal of United Labor** Knights of Labor,1893 *Atlanta* ,2003-05 Atlanta magazine s editorial mission is to engage our community through provocative writing authoritative reporting and superlative design that illuminate the people the issues the trends and the events that define our city The magazine informs challenges and entertains our readers each month while helping them make intelligent choices not only about what they do and where they go but what they think about matters of importance to the community and the region Atlanta magazine s editorial mission is to engage our community through provocative writing authoritative reporting and superlative design that illuminate the people the issues the trends and the

events that define our city The magazine informs challenges and entertains our readers each month while helping them make intelligent choices not only about what they do and where they go but what they think about matters of importance to the community and the region

Murder at the Spa Stefanie Matteson, 2016-06-07 World renowned actress Charlotte Graham's trip to a luxury spa is cut short when she's forced to track a killer in this charming cozy mystery Charlotte Graham is a legend of the silver screen a bona fide star straight out of the golden age of Hollywood She has Oscars on her shelf money in the bank and a knack for solving murders It's been a few years since someone put a real bullet in a prop revolver tricking Charlotte into killing her Broadway costar but because she found the culprit herself her friends drop her a line any time they need a sleuth And Charlotte doesn't mind compared to the stress of life as a Hollywood legend catching criminals is a breeze On a cleanse at a friend's health spa Charlotte is put on a draconian regimen of health food and clean living So when a fellow visitor overdoses on barbiturates and drowns Charlotte suspects foul play Healthy living is all well and good but nothing gets a girl's blood moving like a nice old fashioned murder For fans of Hollywood Broadway or old fashioned glamour Charlotte Graham is as refreshing as an ice cold gin martini This book is a delightful reminder that even the most cunning killer can't keep a good actress down **Murder at the Spa** is the 1st book in the Charlotte Graham Mysteries but you may enjoy reading the series in any order

Los Angeles Magazine, 1999-07 Los Angeles magazine is a regional magazine of national stature Our combination of award winning feature writing investigative reporting service journalism and design covers the people lifestyle culture entertainment fashion art and architecture and news that define Southern California Started in the spring of 1961 Los Angeles magazine has been addressing the needs and interests of our region for 48 years The magazine continues to be the definitive resource for an affluent population that is intensely interested in a lifestyle that is uniquely Southern Californian

New York Magazine, 1980-04-07 New York magazine was born in 1968 after a run as an insert of the New York Herald Tribune and quickly made a place for itself as the trusted resource for readers across the country With award winning writing and photography covering everything from politics and food to theater and fashion the magazine's consistent mission has been to reflect back to its audience the energy and excitement of the city itself while celebrating New York as both a place and an idea

The Reader's Encyclopedia of World Drama John Gassner, Edward Quinn, 1969 Concentrates on drama as literature

Our Navy, the Standard Publication of the U.S. Navy, 1924

Alien Juice Bar Answer Key: Bestsellers in 2023 The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous captivating novels captivating the hearts of readers worldwide. Lets delve into the realm of bestselling books, exploring the captivating narratives that have captivated audiences this year. The Must-Read : Colleen Hoover's "It Ends with Us" This poignant tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover expertly weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can triumph. Alien Juice Bar Answer Key : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This captivating historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids absorbing storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Discover the Magic : Delia Owens "Where the Crawdads Sing" This captivating coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens crafts a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These popular novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of compelling stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is an exceptional and suspenseful novel that will keep you wondering until the very end. The novel is a cautionary tale about the dangers of obsession and the power of evil.

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Table of Contents Alien Juice Bar Answer Key

1. Understanding the eBook Alien Juice Bar Answer Key
 - The Rise of Digital Reading Alien Juice Bar Answer Key
 - Advantages of eBooks Over Traditional Books
2. Identifying Alien Juice Bar Answer Key
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Alien Juice Bar Answer Key
 - User-Friendly Interface
4. Exploring eBook Recommendations from Alien Juice Bar Answer Key
 - Personalized Recommendations
 - Alien Juice Bar Answer Key User Reviews and Ratings
 - Alien Juice Bar Answer Key and Bestseller Lists
5. Accessing Alien Juice Bar Answer Key Free and Paid eBooks
 - Alien Juice Bar Answer Key Public Domain eBooks
 - Alien Juice Bar Answer Key eBook Subscription Services
 - Alien Juice Bar Answer Key Budget-Friendly Options
6. Navigating Alien Juice Bar Answer Key eBook Formats
 - ePub, PDF, MOBI, and More
 - Alien Juice Bar Answer Key Compatibility with Devices
 - Alien Juice Bar Answer Key Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Alien Juice Bar Answer Key
 - Highlighting and Note-Taking Alien Juice Bar Answer Key
 - Interactive Elements Alien Juice Bar Answer Key
8. Staying Engaged with Alien Juice Bar Answer Key

- Joining Online Reading Communities
- Participating in Virtual Book Clubs
- Following Authors and Publishers Alien Juice Bar Answer Key
- 9. Balancing eBooks and Physical Books Alien Juice Bar Answer Key
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Alien Juice Bar Answer Key
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Alien Juice Bar Answer Key
 - Setting Reading Goals Alien Juice Bar Answer Key
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Alien Juice Bar Answer Key
 - Fact-Checking eBook Content of Alien Juice Bar Answer Key
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

Alien Juice Bar Answer Key Introduction

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