Alien Juice Bar Lab - Exploring Acids and Bases

Name		
Hour	Lab Static	on

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 Answers

ML Morrison

Alien Juice Bar Answers:

The Parallels Keyla Damaer, 2020-04-02 A militia officer on the hunt for a murderer A scientist with the key to humanity s future A girl locked in a glass tank One seeking justice One seeking fame One seeking answers With the galaxy on the brink of war time is not on their side Join them in their battle for survival Search words planet politics adventure alien intrigue women dna soft scifi invasion engeneering fame scientist spy galaxy secret service survival militia officer war human power torture space travel thriller mystery deceit spies traitors treason murder sehnsucht justice augment investigation authority agent science discovery experiment death laboratory conquest grimdark For Keeps: An Alien Brides Romance Sophie Stern, One alien One bride One guest for eternal love Ten years ago Hunter spent a night with a viciously sexy woman on Chaos The two of them spent the whole night enjoying each other but when he woke up the next morning she was gone He didn t know what happened to her He didn t know where she d gone Hell he didn t even know if she had died Then she waltzes into the castle on Malum acting like she owns the place It s been a decade but she s just as beautiful as she was all of those years ago Instantly Hunter feels the urge to claim her as his mate He s never considered getting married Nobody could measure up to the way Jill made him feel back on Planet Chaos Is fate giving him a second chance at finding true love He s tempted to say yes but Hunter has a big huge problem Jill doesn t remember who he is A BOY WALKS INTO A BAR Robert C. Kelly, 2013-10 In one year s time two events in the author s life herald a future of turmoil and tragedy the aftermath of which he continues to deal with today At the age of twelve he had his first drink a can of beer in a church parking lot That summer he took a job in a bar around the corner from the house he grew up in He was thirteen And so began his love affair with alcohol and with bartending The book traces his descent into alcoholic oblivion as he moved from one bartending job to another Ironically he knew he was an alcoholic but failed to understand the meaning of the concept It's the first drink that gets you drunk As a consequence it took him twenty seven years to face the reality of his disease but then after almost twenty Hearings, Reports and Prints of the Senate Committee on the Judiciary United States. years of sobriety he once again Congress. Senate. Committee on the Judiciary, 1973 **The Natural Gas Industry** United States. Congress. Senate. Committee on the Judiciary. Subcommittee on Antitrust and Monopoly, 1973 Webster's New World Thesaurus Charlton Laird, Webster's New World, 2003-07 Organized alphabetically for easy access a revised edition of the best selling reference provides synonyms general words and antonyms as well as slang terms colloquial expressions technical terms and the most recent scientific and medical terminology Uncanny Magazine Issue 6 Paul Cornell, Isabel Yap, Liz Argall, Keffy R.M. Kehrli, N.K. Jemisin, David J. Schwartz, Michi Trota, Amal El-Mohtar, Rose Lemberg, 2015-09-01 The September October 2015 issue of Uncanny Magazine Featuring new fiction by Paul Cornell Isabel Yap Liz Argall Kenneth Schneyer and Keffy R M Kehrli classic fiction by N K Jemisin essays by Michi Trota Steven H Silver Diana M Pho and David J Schwartz poetry by Rose Lemberg Dominik Parisien Amal El Mohtar and Jennifer Crow interviews with Isabel Yap and Liz Argall Kenneth Schneyer by

Deborah Stanish a cover by Matthew Dow Smith and an editoral by Lynne M Thomas and Michael Damian Thomas As always **Fairy Faithful** Taryn Jameson, Gabriella Bradley, 2020-02-21 Finding a prince on a planet that has no royal DRM Free males is not an easy task For years Blossom appealed to the gods for a mate to rule by her side When the goddess of love finally answers her plea she is sent far from her home planet to Venus But how can she find a prince on a planet where there Recycled Hero R.L. Wayman, 2010-04-20 John Scully was just another busted up soldier from a score of little known conflicts intending to live out his life on the coast of Maine But that was before he discovered the injured alien craft up on Jacob's Notch If it hadn't been for the baby maybe he wouldn't have gotten involved But the crew was hurt and hungry with no way to get home With Gert's veterinary skills and his engineering experience maybe they could get off planet before someone else stumbled across the crash site But that hope fades when he discovers that their enemy is still waiting up there for one more chance to get at them Sleepless Nights Sarah Bilston, 2012-07-26 After the pregnancy from hell motherhood has to be plain sailing doesn t it Quinn Q Boothroyd is in for a shock And baby Samuel isn t the only thing on Q s mind she and her husband Tom have some difficult decisions to make about their future When a chance opportunity introduces them to an eccentric small town lawyer the couple s integrity and their marriage is tested to the limit Meanwhile Jeanie Q s younger sister is having problems of her own Boyfriend Dave seems dangerously close to popping the question but is she ready to settle down It's sleepless nights all round this summer one woman will wake up to motherhood the other to becoming an adult Both must dare to make their beds and lie in them The London Journal ,1873 **Youth's Companion** .1899 The Language of Lies Polly Bradshaw, 2010-05-11 A thrilling debut novel from exciting new author Polly Bradshaw There is a terrorist bomb plot being set in motion against London banks Terrorists have been brought into Britain by the mysterious Mr Smith who can procure passports as easily as he can do away with people he doesn t care for But where does the plot start In Aldershot an unsuspecting Registrar of Births Marriages and Deaths named Sasha finds herself the target of a man Kit Hatton hell bent on getting some bogus birth certificates from her by hook or by crook But by the time the terrorists have found their way into Britain both Kit and his accomplice Gary are dead and Gary has Sasha s name and address in his back pocket Ghost Rider Vol. 2 Jason Aaron, 2015-05-20 Collects Ghost Rider 2006 26 32 Yes true believer the rumors are true Danny Ketch is back But whose side is the former Ghost Rider on and what familiar faces has he brought with him to the party And who just got shot in the head with a hellfire shotgun For those answers plus more of your daily recommended dose of supernatural action don t miss the team up you never imagined and the showdown that had to happen Los Angeles Magazine, 2001-10 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

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