

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

G Thomas

A red circular graphic with a gradient, appearing as a stylized arrow or a partial circle, located to the right of the 'G Thomas' text.

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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

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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

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