

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

Christian Drosten

A red circular graphic with a gradient, appearing as a stylized arrow or a partial circle, located to the right of the author's name.

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