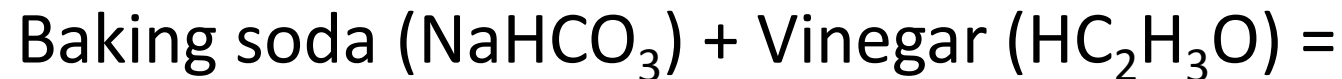


# Neutralization



When do we use this in "real" life??

Baking - bicarbonate & acids



Antiacids & stomach acid



lemon juice & fish





## Test out neutralization....

1. **Create your own base:** add 1 piece  $\text{KOH}$  50mL water
2. Add 4 drops **phenolphthalein**
3. Add **HCl** until solution goes clear.
4. Put solution on **evaporating dish** & heat - slowly

# Sample Lab Results

	Add phenolphthalein	Add HCl	Heated solution
Observations describing what happened			



1



2



3



4



# GEMS Alien Juice Bar Game

credits



## Challenge 1

Set up your juice bar--Learn about acids and bases

## Challenge 2

Serve your customers--Practice identifying acids, bases and neutrals

## Challenge 3

Make mixed drinks for your customers--Learn about pH scale



<http://scienceview.berkeley.edu/showcase/flash/juicebar.html>