

Dr. Ion's notes: **The pH Problem** 3-6-12

Consumed:	pH	Acid or base?
Banana		
Tomato		
Soap		
Vinegar		

I predict Hydronium Being's stomach will be **Acidic or Basic** because....

What would the pH in his stomach be?


Neutralization (pg. 192-194). What would he need to neutralize extra acid in stomach?

1. What he did- is the lake acid or base?	2. How will he solve it? Add vinegar or baking soda?
<p>Divide rest of notebook page into 4 panels Draw and list steps to show: Do not draw Hydronium Being: Draw and describe: What he did, the tests he did, the results, how the indicator was used, how the water was used. How did he know which to use: vinegar or baking soda? What steps did he do to figure out when the lake was neutral pH so he would know when to stop adding vinegar or baking soda?</p>	
3. How will he use the indicator and water?	4. How will he know it is neutral?


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An Alien Spaceship crashes leaving the space traveler frustrated and HUNGRY!
 The strange alien being must **EAT!**
 He finds and eats the following items:

A banana
A tomato
A bar of soap
He washes it down with with a nice glass of vinegar!
 He gets a stomach ache and comes to see you, Dr. Ion.
You must diagnose him!



The acid/base files



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The pH Problem


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3. How will he use the indicator and water?	4. How will he know it is neutral?

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The Story:


Hydronium being has a problem: He knows his crashed spaceship has polluted the lake with either acid or base. But which is it? Can he neutralize the water in the lake?



He has a universal indicator

He has a supply of vinegar and baking soda

But his pH scale for the indicator is ripped!



He tests the lake water and matches it to the scale

So now he knows he needs to add either vinegar or baking soda. But he's not sure how he can tell when the lake is neutral. Suddenly he remembers that he does have a bottle of water from his survival pack.

With the supplies he has he successfully neutralizes the lake water and goes for a swim

How did Hydronium Being solve the problem?
List the steps to take to neutralize the lake water.
Make an instruction manual with pictures to show how to accomplish the task.

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