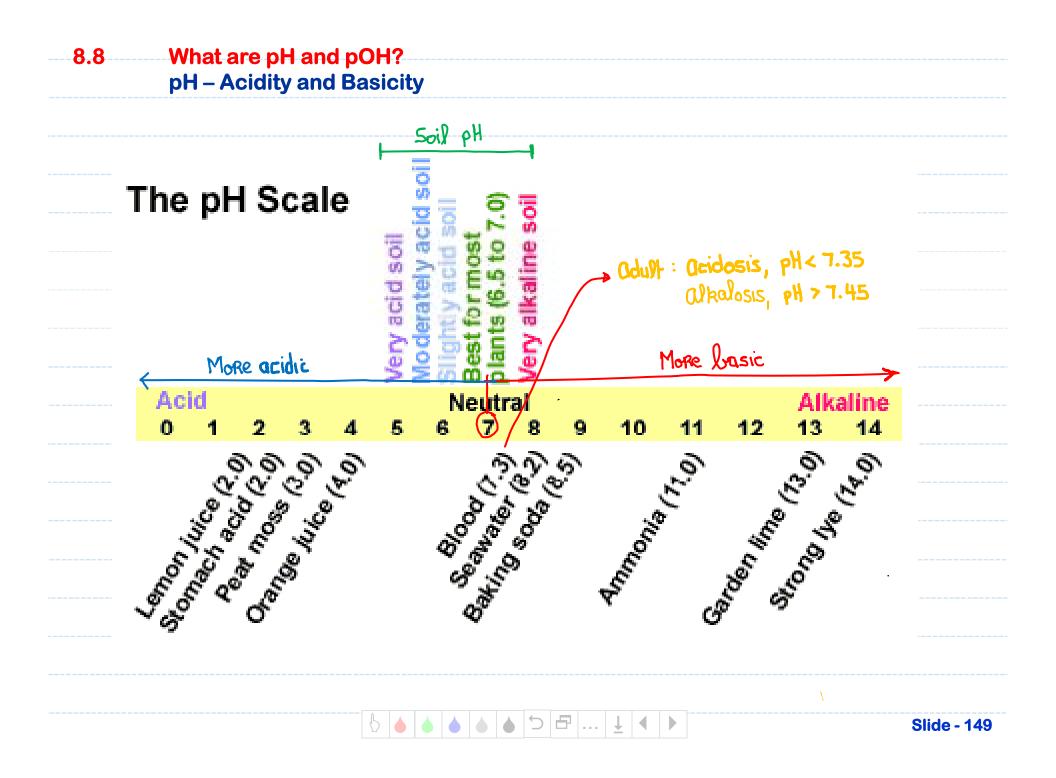
	<u>Announcements – Lecture XVII – Thursday, Nov 15<sup>th</sup></u>
1.	Lab 5 Saturday, November 17 <sup>th</sup> , 1:00-4:00 pm ISB 155/160 A-E
	$ \bigcirc \bullet \bullet \bullet \bullet \bullet \bullet \bullet  \square \square$

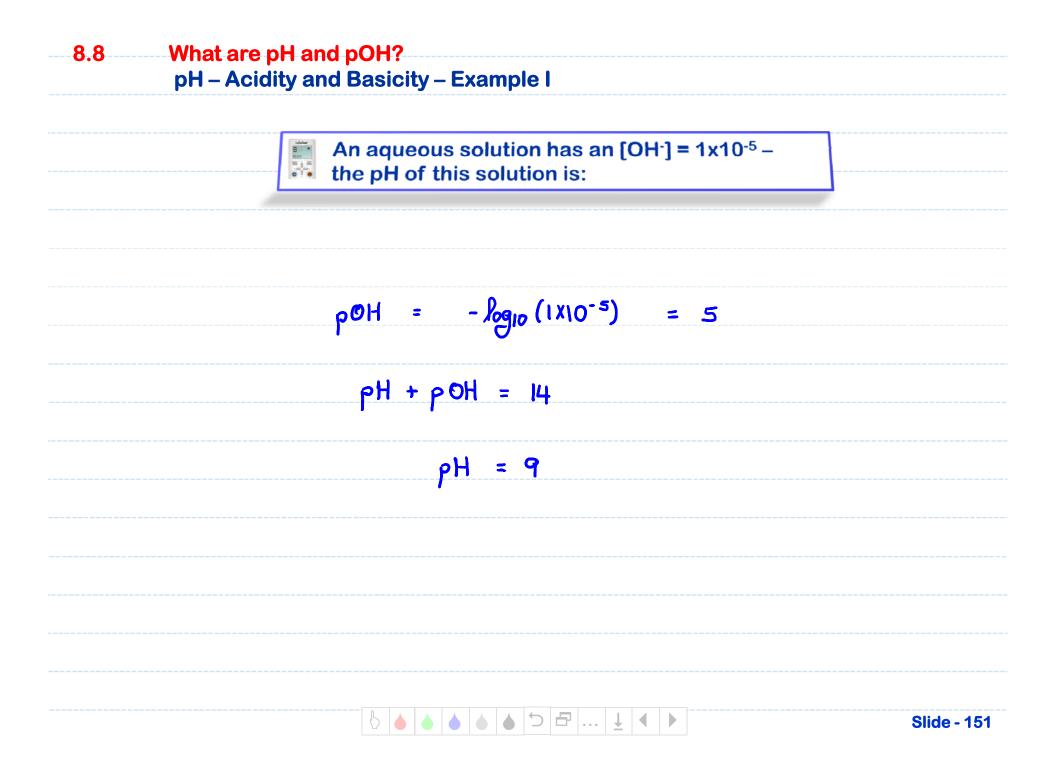


9.8

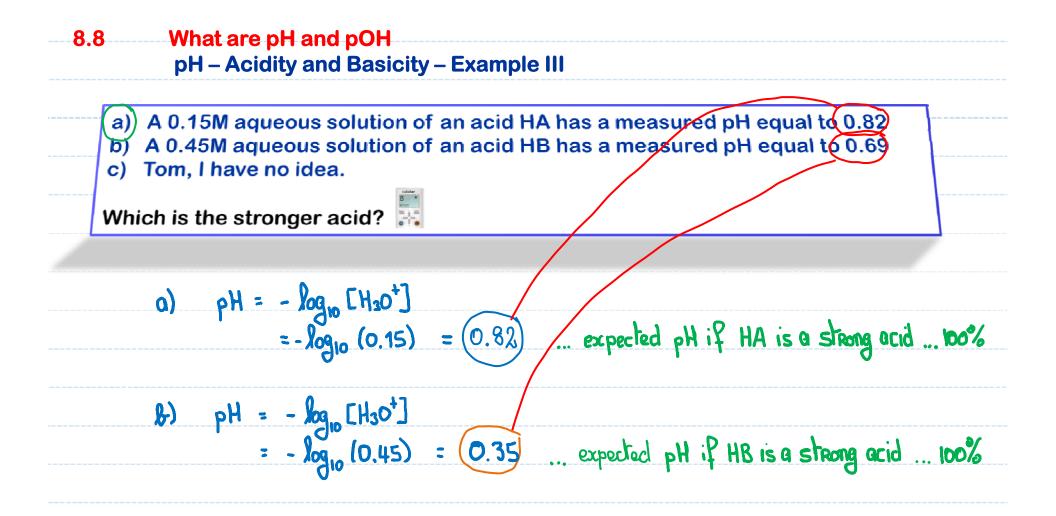
## What are pH and pOH? pH – Acidity and Basicity

	Plant Preference	es for pH	
Very acid	Moderately acid	Very alkaline	
5.0 - 5.8	5.5 - 6.8	6.0 - 6.8	7.0 - 8.0
azalea	bean	asparagus	acacia
blueberry	begonia	beet	bottlebrush
celeriac	Brussels sprouts	bok choy	cabbage
chickory	calla	broccoli	cauliflower
crabapple	camellia	gooseberry	celery
cranberry	carrot	grape	Chinese cabbage
eggplant	collard greens	kale	cucumber
endive	com	kohlrabi	date palms
heathers	fuchsia	lettuce	dusty miller
huckleberry	garlic	mustard	eucalyptus
hydrangea	lima bean	muskmelon	geranium
Irish potato	parsley	oats	oleander
lily	pea	okra	olive
lupine	peppers	onion	periwinkle
oak	pumpkin	pansy	pinks
raspberry	radish	peach	pomegranate
rhododendror		peanut	salt cedar
rhubarb	soybean	pear	tamarisk
shallot	squash	peony	thyme
sorrel	sunflower	rice	ulyllic
spinach beet	tomato	spinach	
spinach deet	turnip	Swiss chard	
wild strawber		SWISS CHALC	
sweet potato	y viola		
watermelon			
watermeion white birch			
white birch			





8.8	What are pH and pH – Acidity and	•	- Exar	nple					
b) 4 c) T	A 0.15M aqueous so A 0.45M aqueous so Tom, I have no idea. h solution is more a	lution of	an acid						
	Jhe M	ore acidic	solution	in	one	with H	ne s	nallest pH	
		6 6		6 5	8	<u>↓</u> ◀			Slide - 152

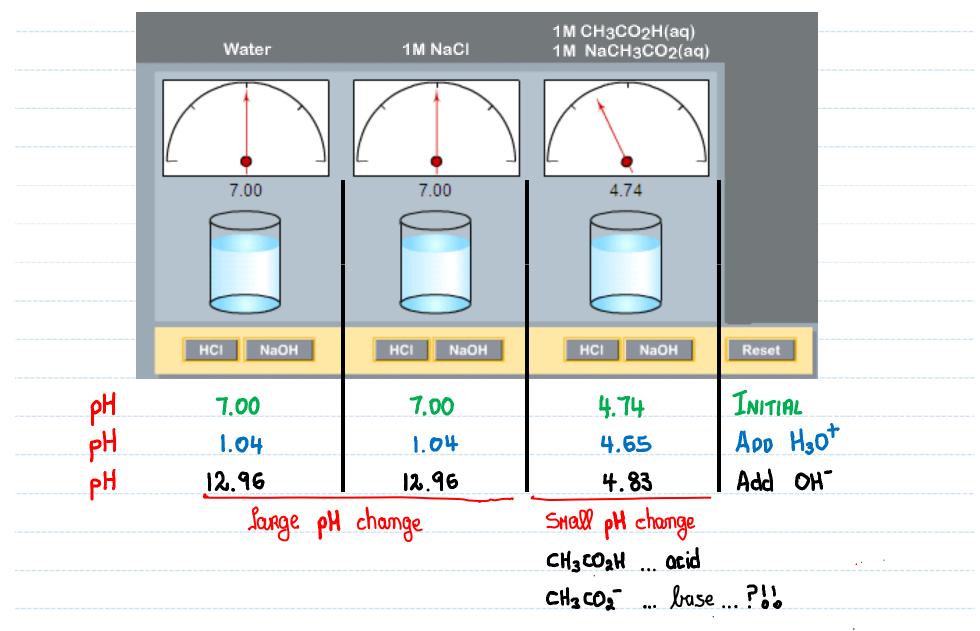


 $HA + H_{2}O(B) \longrightarrow H_{3}O^{+} + A^{-} \dots \text{ a strong ocid}$  $HB + H_{R}O(B) \iff H_{3}O^{+} + B^{-} \dots \text{ or weak ocid}$ 

**Slide - 153** 



## 8.10 What Are Buffers?



W: Neak S: Strong	A: Ocid B: Base
1. $SA + SB = 100\%$	$H_{30}^{+} + OH^{-} = H_{2}O(9) + H_{2}O(9)$
2.5A + WB = 100%	$H_{30}^{+} + NH_{3}(qq) = NH_{4}^{+} + H_{2}O(p)$
3. WA + 5B = 100%	$HCN(qq) + OH^{-2} CN^{-1} + H_2O(g)$
4. WA + WB ?	