Name:				Date:			Perio	od:
Buffers in Ac	tion						We	eek #
Directions: R	ead, annota	te, and ansv	ver the ques	stions.				
environment. (H ⁺) concentr human blood 7.0 – 7.3 rang pH of the bloo in pH, human	Even small ation in cell is normally e, the perso od is in the cells have activity, we y being buf	changes in s can change about 7.4 a n will feel to 7.5 – 7.8 rarchemical coe will use po	pH can cause the rates of the rates of the rates of the personal production	of some che in the range rouble breat son will feel alled buffers lustrate how	to organism mical reactive of 7.0 – 7.8 hing, and middle dizzy and and the first thing thing thing thing thing thing the mical reaction of the first thing the first thing the mical reaction of the mical reaction	s. The char ions. For ex 8 for survive hay even be agitated. To gs are able	nges in hydromages in hydromages in hydromages and the plants of the pla	rogen ion pH of I is in the If the e changes
1. (RST.9-10	0.4) Use con	ntext clues to	o define the	terms.				
Homeosta	sis:					24V 1		
Buffer:	4			K	BA			
2. (RST.9-10	0.2) What is	the purpose	e of this act	ivity?	PAGNEOS	80	12	
Acid Procedu 1. Measu 2. Add 5 and ge 3. Measu 4. Add ar beaker 5. Measu 6. Add ar beaker 7. Measu	and recording to the street and recording the street and recording to the street and gently are and gently and gently and gently are and recording the street and recording	rd the in <mark>itia</mark> Cl to the wa	- 0.1 M So l pH of water ter beaker f the water o the water eaker. f the water o the water eaker. f the water	er. 1. 2. 3. 4. 5. 6. 7.	Procedure Measure a Add 5 dro and gently Measure a Add anoth beaker and Measure a Add anoth beaker and Measure a	and record the ps of NaOF was wirl the band record the factor of the fac	- 2 beakers - pH probe the initial pH I to the wate eaker. the pH of wa of NaOH to irl the beake the pH of the of NaOH to irl the beake the pH of the he pH of the	er beaker tter. the water er. e water. the water er. e water.
Substance		0.1 M	1 HCl			0.1 M	NaOH	
Substance	0 drops	5 drops	10 drops	15 drops	0 drops	5 drops	10 drops	15 drops

Substance	0.1 M HCl				0.1 M NaOH			
	0 drops	5 drops	10 drops	15 drops	0 drops	5 drops	10 drops	15 drops
Water								
Potato Homogenate								

ocs your graph	Does your graph need a key? Why or why not?							
		00						
+								
	A			V				
			K ROKGIS	W I LAY				
				N/A				
154								
ysis Questions								
escribe the pH o	change in the po	tato homogena	te compared to the water w	hen acid was added.				
		9						
escribe the pH o	change in the po	tato homo <mark>ge</mark> na	te co <mark>mp</mark> ared to <mark>the</mark> water w	hen base was added.				
		J						
			water – is a buffer? How o					