Name:			Date:	Period:	Seat No:	
			pH Lab: Acidic or Basic	c?		
Acidic solution Acidic solution Neutral solution	Increasingly BASIC (+H) Increasir	pH scale 0 1 2 Lemon juice; gastric juice 3 Grapefruit juice 4 Tomato juice 5 6 Urine 7 Pure water Human blood 8 Seawater 9 -10 Milk of magnesia -11 Household ammonia -12 Household bleach -13 Oven cleaner	hydrochloric acid can however, bring the heating through materials like metals and he acidic, plumbing fixtures and our hot water Substance with pH lower than 7 is consided. The name "base" however is not as well knowledge the many household in their industrial applications, bases too can with acids, they have many household uses baking soda or oven cleaners. If the water settle out of the water causing our water pillow water pressure. From a taste standpoint, (as anyone who have		e lemon or oranges dic and our stomach s us digest our food. dic acid and die rible images of acid han flesh. If our water is deaters can be damaged. d acidic. wn. Even when the to our mind an image. be highly powerful. As an substances such as basic, minerals can es to clog and give us	
indicators offer considered bas		of judging these	do we know when someth qualities in various substan	0		
			nt pH indicators to identify nce is acidic, basic, or neut	-	ferent household	
Purpose:						
Hypothesis (wr		ne names of the hou	usehold products then write (your prediction) acidic,	basic, or neutral in the	

Procedure:

Safety: ____

- 1. Obtain a 96 well spot plate.
- 2. Place two drops of each household items on the first four rows.
- 3. Place one drop of the universal indicator in the first row and record its color.
- 4. Place one drop of the phenolphthalein in the second row and record its color.
- 5. Place one drop of the cabbage juice in the third row and record its color.
- 6. Place one drop of the bromothymol blue in the fourth row and record its color.
- 7. Record its colors and predict its pH using the color chart and indicator information below.

Characteristics of Acids and Base

Table 1. pH Indicators and its colors.

pН	Universal Indicator	Cabbage Juice	Phenolphthalein	Bromothymol
level		Indicator		blue
pH2	Red	Fuscia	Colorless	Yellow
рН3	Red	Fuscia	Colorless	Yellow
pH4	Red	Purple-pink	Colorless	Yellow
pH5	Orange	Purple	Colorless	
pH6	Yellow	Purple	Colorless	
pH7	Light-green	Blue	Colorless	Green
pH8	Green	Blue-green	Pink	
pH9	Turquoise	Green	Pink	
pH10	Purple	Green	Pink	Blue
pH11	Dark purple	Green	Pink	Blue
pH12	Deep purple	Grass green	Pink	Blue

Data:

Table 2: pH (list the color) of household items

Table 2. pri (list the color) of household items							
Household Item	Chemical	Universal	Cabbage	Phenolph	Bromothymol	рН	Acid, base, or
	Formula	indicator	Juice	-thalein	Blue	prediction	neutral
				indicator		(#)	
Table salt	NaCl(aq)						
Vinegar	C ₂ H ₄ O ₂ (aq)						
Rubbing alcohol	C ₃ H ₈ O(aq)						
Window cleaner	NH₄OH(aq)						
Distilled water	H ₂ O (I)						
Stomach juice	HCl(aq)						
Washing soda	Na ₂ CO ₃						
Lemon Juice	C ₆ H ₈ O ₇ (aq)						
Drain cleaner	NaOH(aq)						

Post Lab Questions:	
Define the following terms.	Be sure include pH for each and phenolphthalein indicator colors
Acid:	
Rase:	

Neutral (pH):	
ricultal (pl1).	