

Cabbage Chemistry Experiment Answer Key

Household solution or liquid	Hypothesis (Predict base, acid, or neutral.)	Color (Record color of solution after indicator is applied)	pH (Record the pH of solution according to the table)
Tap Water	neutral	Dark blue	7
Vinegar	acid	Red	2
Lemon juice	acid	Red	2
Soda	acid	Purple	3-4fds
Baking soda water	basic	Blue-green	9
Dish soap	neutral	Purple-blue	7-8
Apple juice	acid	Purple	4
Coffee	acid	Purple-violet	5

Questions:

1. Were your hypotheses correct?
2. How do the pH of the different household solutions you tested compare to each other? *Should observe a lot more acidic solutions in household items and drinks.*
3. How are indicators considered a chemical change? *A chemical change is when a chemical reaction occurs, and a new substance is created.*
4. Were you surprised by the results of household cleaning products versus common sodas or drinks?
5. What do you think happens when an acid and a base come in contact with each other? *They neutralize one another.*