

Lab 11 – pH Lab

Introduction:

Write 10 sentences that talk about the topics in chapter 8. You can use your notes, the textbook, vocabulary, etc. to help you.

Materials: (copy the materials into the lab notebook)

pH strips
well plate

household solutions

Procedure: (copy the procedure into the lab notebook)

1. BEFORE you start the lab, make predictions as a group to decide if each solution will be acidic, basic, or neutral. Fill in the prediction column on the data chart.
2. Add a small amount of each solution to your well plate.
3. Dip a strip of pH paper in each household solution. Use a new strip of pH paper for each solution.
4. Record the color in your data chart. Use the pH color key to estimate the pH of the solution. Rinse your well plate clean with water.

Data: (You can tape the data charts ONLY in the lab notebook. All other sections must be hand written in BLACK INK.)

Solution Name	Prediction (Acidic, Basic, or Neutral?)	Color of pH paper	Estimated pH
hydrogen peroxide			
vinegar			
laundry detergent			

rubbing alcohol			
aspirin in water			
sprite			
Solution Name	Prediction (Acidic, Basic, or Neutral?)	Color of pH paper	Estimated pH
lemon juice			
ammonia			
milk			
dish soap			
borax			
corn starch			

Questions: (Copy the questions and answer them in the lab notebook)

1. Which pH numbers represent an acid?
2. Which pH numbers represent a base?
3. What is the difference between a strong base and a weak base?
4. If you spilled bleach (a base) on the floor, then which of the household solutions above could you use to neutralize it?
5. Which particle is produced by an acid when it is dissolved in water?

Conclusion:

Write 3 sentences for the conclusion. They can be about anything that you learned, mistakes that you made during the lab, or any real life connections that you can use to relate to the lab.

