

Name _____

Period: _____

pH Scale Mini-Lab

You will be testing 3 different substances with pH strips. pH strips are paper strips treated with a chemical compound to react to acids and alkalines (bases) by turning the paper visible colors. The colors correspond to a scale from 0 to 14. The lower end of the scale indicates acidity and the higher end of the scale indicates alkalinity (it's a base). If something is neutral it will have a pH of around 7. You will need to dip your group's pH strip into the substance to test its pH. In order to determine the pH number, compare the colors on the strip to the pH chart provided.

Chemical #1 (Windex):

Hypothesis (circle one of the choices in the [] and fill in the blank with an *appropriate* pH number to complete the hypothesis):

If Windex is [**acidic** **basic** **neutral**], then the pH strip will indicate a pH of _____

Data: The pH paper indicated a pH number of _____

Conclusions:

- 1) What does the pH paper tell you? Is Windex an acid, base, or is it neutral?
- 2) Do you accept or reject your hypothesis?

Chemical #2 (Coke):

Hypothesis (circle one of the choices in the [] and fill in the blank with an *appropriate* pH number to complete the hypothesis):

If Coke is [**acidic** **basic** **neutral**], then the pH strip will indicate a pH of _____

Data: The pH paper indicated a pH number of _____

Conclusions:

- 1) What does the pH paper tell you? Is Coke an acid, base, or is it neutral?
- 2) Do you accept or reject your hypothesis?

Chemical #3 (School water):

Hypothesis (circle one of the choices in the [] and fill in the blank with an *appropriate* pH number to complete the hypothesis):

If school water is [**acidic** **basic** **neutral**], then the pH strip will indicate a pH of _____

Data: The pH paper indicated a pH number of _____

Conclusions:

- 1) What does the pH paper tell you? Is school water an acid, base, or is it neutral?
- 2) Do you accept or reject your hypothesis?