

# pH / Indicators Practice:

Name: \_\_\_\_\_

SOLUTIONS

1. In a laboratory, a student has prepared three solutions: HCl, NaCl and NaOH. He has forgotten to label his three solutions. To identify each, he has used litmus paper. These are his results:

Solution A: turns red litmus to blue. NaOH  
Solution B: no reaction. NaCl  
Solution C: turns blue litmus to red. HCl

Identify the three substances.

2. The following are some characteristics of a certain liquid:

- produces a gas when in contact with a piece of metal
- conducts electricity
- turns litmus paper red

How would you describe this liquid?

- a) This liquid is a neutral solution.      c) This liquid is a basic solution.  
b) This liquid is an acidic solution.      d) This liquid is a neutral salt solution.

3. To determine the pH of fruit juice, one would normally use universal indicator paper. However, none of this paper is available. You use litmus paper instead and observe that the juice turns blue litmus paper red.

What could the pH of the juice be?

Acid pH 0-7

4. The following table gives the colours of a universal indicator in solutions that have pH values ranging from 1 to 13.

Colour	Red	Yellow	Turquoise Blue	Violet
pH	1	5	9	13

A given solution turns orange when this indicator is added.

Which of the following statements is definitely TRUE?

- a) This solution is acidic.      c) This solution is neutral.  
b) This solution is basic.      d) This solution is saline.









