

SCIENCE (Chemistry)

Acids and Bases - Exercise 1 (Indicators and pH scale)

Name: _____ () Class: _____ Date: _____

- 1) State whether these solutions are strongly acidic, weakly acidic, neutral, weakly alkaline or strongly alkaline:

answer

Beer	pH = 5.0
Blood	pH = 7.4
Grapefruit juice	pH = 3.0
Rainwater	pH = 6.5
Sugar solution	pH = 7.0
Vinegar	pH = 4.0
Water	pH = _____

neutral

- i) Which is the most acidic?
- ii) Which of the above are neutral?
- iii) Which is the most alkaline?

2) The pH scale is a range from _____ to _____.

3) Acidic solutions have pH values of _____.

4) Alkaline solutions have _____ values of _____ than 7.

5) A solution with a pH of 7 is a _____ solution. An very common example of a neutral solution would be _____.

6) Litmus would turn from _____ to _____ in an alkaline solution.

7) Label the colour for the Universal indicator at different pH values.

pH	1	2	3	4	5	6	7	8	9	10	11	12	13	14
colour	←→										←→			