



# HYDROGEN IONS AND ACIDITY

## Section Summary

### Objectives

- Define hydrogen ion concentration and relate it to the pH of a solution.
- Define acid and base and relate them to the pH of a solution.
- Define strong and weak acids.

### Key Vocabulary

<ul style="list-style-type: none"><li>hydrogen ion</li><li>acid</li><li>base</li><li>strong acid</li><li>weak acid</li><li>pH</li></ul>	<ul style="list-style-type: none"><li>hydrogen ion concentration</li><li>acidic</li><li>basic</li><li>neutral</li><li>titration</li><li>titration curve</li></ul>
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### Key Equations

- $\text{pH} = -\log_{10}[\text{H}^+]$
- $\text{pH} = \log_{10}[\text{OH}^-]$

### Key Diagrams

- Titration curve
- Titration curve

### Points of Consideration

Acidic and basic properties are determined by the concentration of hydrogen ions in a solution. The concentration of hydrogen ions is measured by the pH of a solution.

Hydrogen ions are the only ions that contribute to the concentration of ions in a solution. The concentration of ions in a solution is determined by the concentration of hydrogen ions.

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### Key Equations

$\text{pH} = -\log_{10}[\text{H}^+]$	$\text{pH} = \log_{10}[\text{OH}^-]$
$\text{pH} = 7$	$\text{pH} = 14$
$\text{pH} = 1$	$\text{pH} = 13$
$\text{pH} = 2$	$\text{pH} = 12$
$\text{pH} = 3$	$\text{pH} = 11$
$\text{pH} = 4$	$\text{pH} = 10$
$\text{pH} = 5$	$\text{pH} = 9$
$\text{pH} = 6$	$\text{pH} = 8$
$\text{pH} = 7$	$\text{pH} = 7$
$\text{pH} = 8$	$\text{pH} = 6$
$\text{pH} = 9$	$\text{pH} = 5$
$\text{pH} = 10$	$\text{pH} = 4$
$\text{pH} = 11$	$\text{pH} = 3$
$\text{pH} = 12$	$\text{pH} = 2$
$\text{pH} = 13$	$\text{pH} = 1$
$\text{pH} = 14$	$\text{pH} = 0$

## 19 2 Hydrogen Ions And Acidity Worksheet Answers

**Albert A Gayle**

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