

Name - _____

Start time - __ : __

End time - __ : __

Explain how to calculate pH using the formula $\text{pH} = -\log[\text{H}^+]$, where $[\text{H}^+]$ represents the concentration of hydrogen ions in a solution.

Define the term "acid-base indicator" and explain how indicators are used to determine the pH of a solution.

Identify and describe at least three common acid-base indicators, including their color changes and pH ranges.

1. _____
2. _____
3. _____

Discuss the impact of acidic or basic substances on the environment, human health, and everyday materials.

Identify the pH range for acids, neutral substances, and bases on the pH scale.

a b c d e f g h i j k l m n o p q r s t u v w x y z