

## Types of indicators

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**Litmus Paper:** A solution applied to litmus paper will either keep the litmus the same color or change it. not able to determine Ph value. Only to distinguish between acid and base

**Universal Indicator:** mixture of indicators, often **phenolphthalein methyl red and bromothymol blue**. Identification of an approximate pH is obtained by adding several drops of a universal indicator to a solution. **Red** indicates a strong acid, in the range of pH 1 to 4, while a weak acid has an **orange** hue. In a neutral solution, the color turns **yellow-green**. Purple indicates a strong base, above pH 11, while weak bases exhibit a **bluish** tint.