

## Properties and Chemistry of Lime

*This is a multiple-choice quiz. Some questions have more than one answer.*

- Lime is an:
  - Acid
  - Alkali
- The chemical formula for making lime is:
  - $\text{CaCO}_3 + \text{heat} = \text{CaO} + \text{CO}_2$
  - $\text{CuCO}_3 + \text{heat} = \text{CuO} + \text{CO}_2$
  - $\text{CaCO}_3 + \text{heat} = \text{CaO} + \text{H}_2\text{O}$
- The chemical formula for making slaked lime is:
  - $\text{CaO} + \text{H}_2\text{O} = \text{Ca(OH)}_2$
  - $\text{CaO} + \text{CO}_2 = \text{CaCO}_3$
  - $\text{CaCO}_3 + \text{H}_2\text{O} = \text{Ca(OH)}_2$
- Lime and lime products are used for:
  - Making Mortar
  - Making iron and steel
  - Making bronze
  - Making drinking water safe
- Lime is used in sugar manufacture to:
  - Extract dissolved impurities from the raw juice
  - Make the raw juice more acidic
  - Colour the sugar
- Precipitated calcium carbonate (made from lime) is used in toothpaste because it is:
  - Acidic
  - Abrasive
  - Absorbent
- Lime is used for protecting the environment because it:
  - Reacts with water
  - Neutralises acidic liquids and gases
  - Dissolves pollutants