

Review C1.2 Limestone and building materials

| <i>Can you...?</i> | 😊 | 😐 | 😞 |
|--|---|---|---|
| C1.2.1 Calcium carbonate | | | |
| Describe how limestone, which can be used as a building material, is extracted from the ground, and state that it is mainly composed of calcium carbonate (CaCO ₃) | | | |
| Describe the thermal decomposition of calcium carbonate and name the products | | | |
| Describe the thermal decomposition of carbonates of magnesium, copper, zinc and sodium, and state that some group 1 carbonates won't decompose in a Bunsen burner | | | |
| Describe how calcium oxide reacts with water and name the product, its properties and how it can be used | | | |
| Describe how a solution of calcium hydroxide in water (called limewater) reacts with carbon dioxide and name the product | | | |
| Describe how limewater can be used as a test for carbon dioxide | | | |
| Describe how carbonates react with acids and name the products | | | |
| State that limestone is damaged by acid rain | | | |
| Describe how cement is made from limestone and clay, and how cement can be mixed with sand to make mortar or with sand and aggregate to make concrete | | | |
| Consider and evaluate the environmental, social and economic benefits of exploiting limestone and producing building materials from it | | | |
| Evaluate the developments in using limestone, cement and concrete as building materials, and their advantages and disadvantages over other materials | | | |

Review C1.2 Limestone and building materials

| <i>Can you...?</i> | 😊 | 😐 | 😞 |
|--|---|---|---|
| C1.2.1 Calcium carbonate | | | |
| Describe how limestone, which can be used as a building material, is extracted from the ground, and state that it is mainly composed of calcium carbonate (CaCO ₃) | | | |
| Describe the thermal decomposition of calcium carbonate and name the products | | | |
| Describe the thermal decomposition of carbonates of magnesium, copper, zinc and sodium, and state that some group 1 carbonates won't decompose in a Bunsen burner | | | |
| Describe how calcium oxide reacts with water and name the product, its properties and how it can be used | | | |
| Describe how a solution of calcium hydroxide in water (called limewater) reacts with carbon dioxide and name the product | | | |
| Describe how limewater can be used as a test for carbon dioxide | | | |
| Describe how carbonates react with acids and name the products | | | |
| State that limestone is damaged by acid rain | | | |
| Describe how cement is made from limestone and clay, and how cement can be mixed with sand to make mortar or with sand and aggregate to make concrete | | | |
| Consider and evaluate the environmental, social and economic benefits of exploiting limestone and producing building materials from it | | | |
| Evaluate the developments in using limestone, cement and concrete as building materials, and their advantages and disadvantages over other materials | | | |