

Calcium Hydroxide - Ca(OH)_2

And Heat given off (exothermic)



Calcium Hydroxide solution
(limewater)
 Ca(OH)_2

Limewater is used as a test for carbon dioxide.
Carbon dioxide turns limewater cloudy.



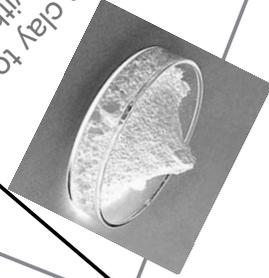
Calcium oxide reacts with water to produce calcium hydroxide, which is an alkali that can be used in the neutralisation of acids.

THE LIMESTONE CYCLE

Carbonates react with acids to produce carbon dioxide, a salt and water. Limestone is damaged by acid rain.



Limestone is heated with clay to make cement. Cement is mixed with sand and aggregate to make concrete.



Calcium Oxide - CaO
And CO_2 released And light given off
thermal (heat) decomposition

Calcium Carbonate - CaCO_3

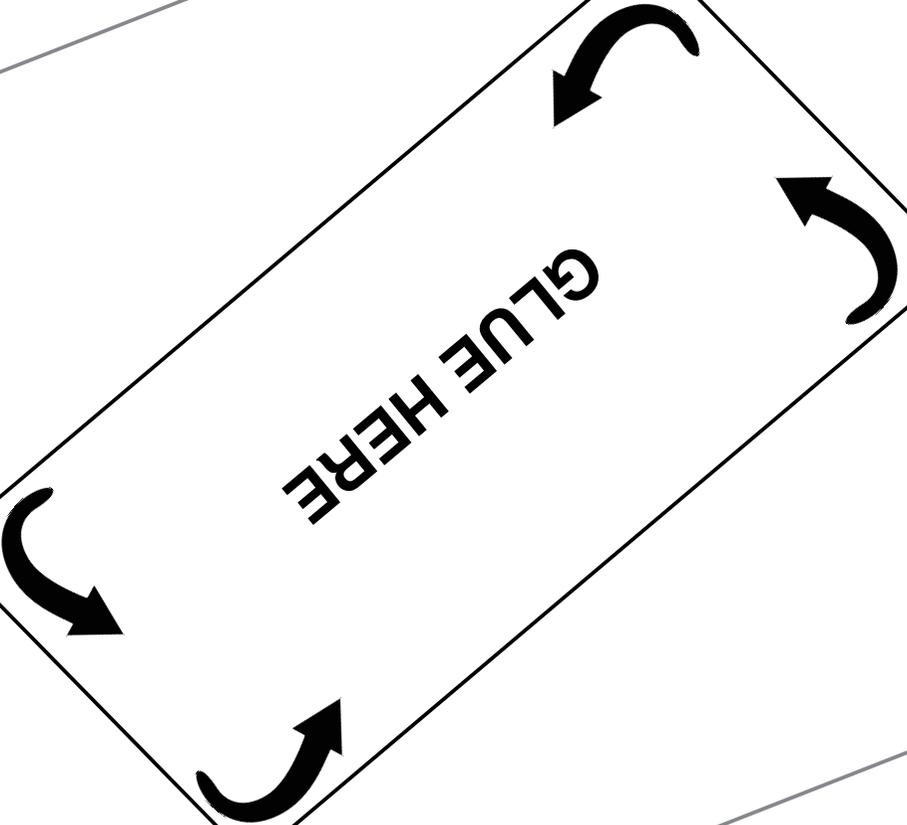
Naturally found as:
marble, limestone,
and chalk

CUT HERE

Heat to a high temperature

Add CO₂
(test for carbon dioxide)

GLUE HERE



Add even
more water

Add Water

CUT HERE