

The limestone cycle

Before you answer the gridlocks below fill in the table of some of the compounds involved in the limestone cycle using:

quicklime	calcium hydroxide	CaCO₃	limewater
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common name	chemical name	formula
limestone	calcium carbonate	
	calcium oxide	CaO
slaked lime		Ca(OH)₂(s)
	calcium hydroxide solution	Ca(OH)₂(aq)

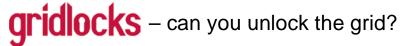
Gridlock 1

Each row, column and 2 x 2 box contains information about the four substances listed above. Use your problem solving skills and the answers in the table above to fill in the blank boxes.

commo	n name	chemic	al name
quicklime			calcium carbonate
	calcium hydroxide		limewater
chemic	al name	commo	n name







Gridlock 2

Each row, column and 2 x 2 box contains information about the four substances listed above.

common name		chemical name	
limestone			calcium hydroxide solution
	limewater		
			limestone
		quicklime	
form	nula	commo	n name

Gridlock 3

Each row, column and 2 x 2 box contains information about the four substances listed above.

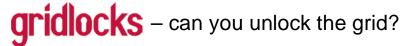
chemical name		commo	n name
calcium oxide			
		limewater	
		calcium carbonate	
	Ca(OH)₂(s)		



formula



chemical name



The limestone cycle – answers

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common name	chemical name	formula
limestone	calcium carbonate	CaCO₃
quicklime	calcium oxide	CaO
slaked lime	calcium hydroxide	Ca(OH)₂(s)
limewater	calcium hydroxide solution	Ca(OH) ₂ (aq)

Gridlock 1 - answers

Each row, column and 2×2 box contains information about the four substances listed above. Use your problem solving skills and the answers in the table above to fill in the blank boxes.

common name		chemic	al name
quicklime	limewater	calcium hydroxide	calcium carbonate
slaked lime	limestone	calcium hydroxide solution	calcium oxide
calcium carbonate	calcium hydroxide	quicklime	limewater
calcium hydroxide solution	calcium oxide	limestone	slaked lime
chemic	al name	commo	n name

chemical name common name





gridlocks – can you unlock the grid?

Gridlock 2 - answers

common name		chemical name	
limestone	quicklime	calcium hydroxide	calcium hydroxide solution
slaked lime	limewater	calcium carbonate	calcium oxide
CaO	Ca(OH)₂(s)	limewater	limestone
Ca(OH)₂(aq)	CaCO₃	quicklime	slaked lime
forn	nula	commo	n name

Gridlock 3 - answers

chemical name		common name	
calcium oxide	calcium hydroxide solution	slaked lime	limestone
calcium hydroxide	calcium carbonate	limewater	quicklime
Ca(OH)₂(aq)	CaO	calcium carbonate	calcium hydroxide
CaCO₃	Ca(OH)₂(s)	calcium oxide	calcium hydroxide solution



formula



chemical name