

gridlocks – can you unlock the grid?

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 CaCO_3 limewater

Common name	Chemical name	Formula
limestone	calcium carbonate	
	calcium oxide	CaO
slaked lime		$\text{Ca(OH)}_2(\text{s})$
	calcium hydroxide solution	$\text{Ca(OH)}_3(\text{aq})$

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.

common name		chemical name	
quicklime			calcium carbonate
	calcium hydroxide		Limewater
chemical name		common name	

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Gridlock 2

common name		chemical name	
limestone			calcium hydroxide solution
	limewater		
			Limestone
		Quicklime	
formula		common name	

Gridlock 3

chemical name		common name	
calcium oxide			
		Limewater	
		calcium carbonate	
	$\text{Ca(OH)}_2(\text{s})$		
formula		chemical name	