

# gridlocks – can you unlock the grid?

## Pollutants in air (11–14)

Before you answer the gridlocks below fill in the table of pollutants using:

global dimming      poisoning      carbon dioxide      acid rain

Pollutant	Environmental problem
sulfur dioxide	acid rain
particulates	
	global warming
CFCs	ozone depletion
nitrogen oxides	
carbon monoxide	

### Gridlock 1

Each row, column and 2 x 2 box contains information about carbon dioxide, sulfur dioxide, particulates and CFCs. Use your problem solving skills and the answers in the table above to fill in the blank boxes.

pollutant		environmental problem	
particulates			acid rain
	global warming		CFCs
environmental problem		pollutant	

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## Gridlock 2

Contains the pollutants: CFCs, nitrogen oxides, particulates and carbon monoxide.

pollutant		environmental problem	
particulates			
		ozone depletion	
		nitrogen oxides	
	poisoning		
environmental problem		pollutant	

## Gridlock 3

There are 2 pollutants which cause acid rain but each entry in the gridlock can be assigned to one of them in particular.

pollutant		environmental problem	
	sulfur dioxide		poisoning
			acid rain
acid rain			
acid rain			carbon dioxide
environmental problem		pollutant	

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## Pollutants in air (11–14) – answers

Before you answer the gridlocks below fill in the table of pollutants using:

global dimming	poisoning	carbon dioxide	acid rain
<b>Pollutant</b>	<b>Environmental problem</b>		
sulfur dioxide	acid rain		
particulates	global dimming		
carbon dioxide	global warming		
CFCs	ozone depletion		
nitrogen oxides	acid rain		
carbon monoxide	poisoning		

## Gridlock 1 – answers

Each row, column and 2 x 2 box contains information about carbon dioxide, sulfur dioxide, particulates and CFCs. Use your problem solving skills and the answers in the table above to fill in the blank boxes.

pollutant		environmental problem	
particulates	CFCs	global warming	acid rain
carbon dioxide	sulfur dioxide	ozone depletion	global dimming
acid rain	global warming	particulates	CFCs
ozone depletion	global dimming	sulfur dioxide	carbon dioxide
environmental problem		pollutant	

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## Gridlock 2 – answers

Contains the pollutants: CFCs, nitrogen oxides, particulates and carbon monoxide

pollutant		environmental problem	
particulates	CFCs	poisoning	acid rain
carbon monoxide	nitrogen oxides	ozone depletion	global dimming
ozone depletion	global dimming	nitrogen oxides	carbon monoxide
acid rain	poisoning	particulates	CFCs
environmental problem		pollutant	

## Gridlock 3 – answers

There are 2 pollutants which cause acid rain but each entry in the gridlock can be assigned to one of them in particular.

pollutant		environmental problem	
carbon dioxide	sulfur dioxide	acid rain	poisoning
carbon monoxide	nitrogen oxides	global warming	acid rain
acid rain	global warming	carbon monoxide	nitrogen oxides
acid rain	poisoning	sulfur dioxide	carbon dioxide
environmental problem		pollutant	