

		Al	Mg	Be			Cs	Ca
Rb				Cs	K	Na		
								Mg
K							Mg	
	Be		Rb		Al		Na	
	Rb							Li
Mg								
		Be	Al	K				Na
Cs	Al			Mg	Na	Li		

Al
Be
Ca
Cs
K
Li
Mg
Na
Rb

Ensure that each row, column and 9-square cell contains each of the chemical elements, shown to the side, once:

Ti	Sn	Ni	Mn	Au	Zn	Ag	Cu	Fe
Ag	Mn	Au	Ti	Cu	Fe	Zn	Ni	Sn
Cu	Fe	Zn	Sn	Ag	Ni	Au	Ti	Mn
Ni	Ag	Mn	Zn	Fe	Sn	Cu	Au	Ti
Au	Cu	Fe	Ni	Ti	Ag	Sn	Mn	Zn
Sn	Zn	Ti	Cu	Mn	Au	Ni	Fe	Ag
Fe	Ni	Sn	Au	Zn	Ti	Mn	Ag	Cu
Zn	Ti	Cu	Ag	Ni	Mn	Fe	Sn	Au
Mn	Au	Ag	Fe	Sn	Cu	Ti	Zn	Ni

Solution to February 2006 Chemistry Su Doku

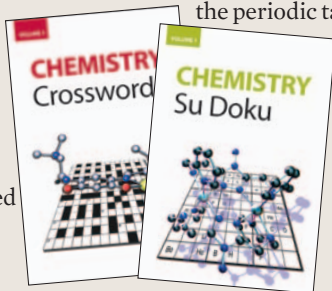
The winner of the February 2006 *Chemistry World* Su Doku competition is P Palmer, Bath, UK.

The winner of this month's chemistry Su Doku will be published next month. For a chance to win a £25 book voucher and a signed copy of Bill Bryson's *A short history of nearly everything*, please send your completed Su Doku to the address on p2 or fax to +44 (0)1223 426017 by 14 March.

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spanning all areas of chemistry, while the *Chemistry Su Doku* book has been developed to incorporate chemical symbols in place of numbers, with themes including the periodic table, the isotopes of boron and John Dalton's notation system from 1808.

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1		2		3		4		5		6		7		8
9										10				
11								12				13		
							14							
15											16			
17					18		19				20			
21										22				
											23			
24		25					26							
27														

Across

- 1 Wife in taking the main part in an opera perhaps is shirking her duty (8,3,4)
- 9 Beer cut back in China (9)
- 10 Fertiliser obtained from Nicaragua nowadays (5)
- 11 Beaming with joy cut down size of an angle (6)
- 12 Arsenic compounds (ionic ones) said to be used in more than one battery? (8)
- 15 The Corrs – a smashing group of musicians (9)
- 16 Department's head of history shows sagacity (5)
- 17 Shut out sweetheart that's entertaining bishop (5)
- 19 Lying on top of bed clutching drug – takes too much of it (9)
- 21 Shuffle round cave with a leg fracture (8)
- 22 Refined young lady takes car in to get the engine cleaned (6)
- 24 Compound obtained from lichen is rearranged corrin – that's not right (5)
- 26 Kiln has to use oxygen in an irregular manner (4,5)
- 27 Second type of metal still made in a roundabout way (6,9)

Down

- 1 Splendid managers such as provide no resistance (15)
- 2 One crucible with no lid contains pigment that must remain oxidised (11)
- 3 A type of syrup missing in small bomb (7)
- 4 Closely related to two inert gases (4)
- 5 Heavy metal salts adopting gas phase inside fermenting vessels (10)
- 6 Country that's no good for antelope to feed on (7)
- 7 Greek character's estimated arrival time (3)
- 8 Gives up chemistry perhaps and stops talking about it (5,3,7)
- 13 Blue pigment from South American city containing iodine, sulfur and a bit of lead, uranium and lithium (5,6)
- 14 Concentrated available space where gold might be stored (10)
- 18 Bitterly regret receiving regular income (7)
- 20 Break down your small sample of lactone having two particular alkyl groups (7)
- 23 Availed oneself of second-hand American edition (4)
- 25 Pass a piece of chocolate (3)

S	T	C	E	U	O	M	I							
E	R	A	T	O	L	O	N	E	P	A	I	R	S	
I	L	B	S	S	A	N	O							
D	I	O	X	A	N	E	H	O	L	M	I	U	M	
L	S	L	V	O							S	E		
I	N	E	R	T	I	N	D	I	C	A	T	O	R	
T		B	E		H	R								
Z	I	E	G	L	E	R	C	A	T	A	L	Y	S	T
	P	U			S	L	L							
S	M	O	K	E	B	O	M	B	Y	E	A	S	T	
A	X				S	E	B	S	R					
I	R	J	D	I	U	M	S	P	E	C	T	R	A	
N	D	N	A	T	A	E	E	T						
T	W	E	N	T	Y	T	W	O	T	I	R	E	E	
S	S	O	E	S	E	N	S							

Solution to February 2006 crossword

The winner of the February 2006 *Chemistry World* crossword competition is M Pater, London, UK

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