

January 2007 Chemistry Su Doku

		Nd	Eu					
	Tb	Sm				Pm		Nd
Gd	Ce							Eu
		Tb		Eu				Ce
	Sm		La		Tb			Nd
Pm				Ce		Sm		
Sm							Eu	La
Pr		La				Gd	Pm	
					Eu	Pr		

La
Ce
Pr
Nd
Pm
Sm
Eu
Gd
Tb

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

Fe	Ti	Sc	Mn	Ni	V	Cu	Co	Cr
V	Cu	Co	Cr	Fe	Sc	Ti	Mn	Ni
Ni	Cr	Mn	Co	Ti	Cu	V	Fe	Sc
Co	Mn	Cu	Ni	V	Cr	Fe	Sc	Ti
Cr	Fe	V	Sc	Mn	Ti	Ni	Cu	Co
Sc	Ni	Ti	Cu	Co	Fe	Cr	V	Mn
Cu	V	Cr	Ti	Sc	Co	Mn	Ni	Fe
Mn	Co	Fe	V	Cr	Ni	Sc	Ti	Cu
Ti	Sc	Ni	Fe	Cu	Mn	Co	Cr	V

Solution to December 2006 Chemistry Su Doku

The winner of the December 2006 *Chemistry World* Su Doku competition is R Reed, Stoke-on-Trent, UK, and the runners up are J Applegarth, Kenilworth, UK, and S Wigglin, Ipswich, UK

The winner of this month's chemistry Su Doku will be published next month. For a chance to win a £25 book voucher, please send your completed Su Doku to the address on p2 or fax to +44 (0)1223 426017 by 12 January 2007.

January 2007 Crossword

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										28			
29								30					

Across

- Loitered around rock (8)
- Sieve loose stones, an indefinite number (6)
- Arrive eventually missing the first part of satire (3,2)
- Ethnic area – could it be part of The Potteries? (9)
- Alight from vehicle say without a composer (7)
- Start to notice a distinctive smell beginning to develop (7)
- Trainees split a potentially poisonous salt (8)
- Policemen beginning to enter small wood (5)
- Finally analyse oxygen and sulfur in red dye (5)
- Unearth novel nitrides (8)
- Showing no inclination to use a private hospital (7)
- Eastern gesture showing anger perhaps (7)
- Offensive remark about a yellow material with very low conductivity (9)
- Imitative behaviour seen where primates are housed? (5)
- Pauses to allow us to gain poise (3-3)
- Containing divalent silver, it is reacting violently (8)

Down

- Daughter dares to be different but is afraid (6)
- Creatures that fly. Surely they must be hens! (9)
- Witty reply is in letter I posted (7)
- Possibly a computer nerd is irritable when short of time (5)
- Third-stream form in first year at school is of acknowledged excellence (7)
- Run away having stolen pen from girl (5)
- Einstein moved around in this decade (8)
- Initiates use of new form of isoprene (8)
- Show how actinide can be transmuted (8)
- University head put pressure on medical graduate (9)
- Regional variation in terpene alcohol (8)
- No large quantity of lager is sent up – that should stop you falling over (3-4)
- Gas troubled newborn child (7)
- Agreeing where the washing-up may be, it's said (2,4)
- Composer's catalogue that must be heard (5)
- Some terrorists will make a mistake (5)

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

Solution to December 2006 crossword

The winner of the December 2006 *Chemistry World* crossword competition is M Rabjohns, Manchester, UK, and the runners up are C Schofield, Oldham, UK, and N A Warawa, Congleton, UK

The winner of this month's crossword will be published next month. For a chance to win a £25 book voucher, please send your completed crossword to the address on p2 or fax to +44 (0)1223 426017 by 12 January 2007

Who, where or when?



Answer - Professor Sir Geoffrey Wilkinson with some of his students, at work in the Johnson Matthey Laboratories, opened at the Imperial College of Science and Technology, London, on 18 January 1989 (*Chemistry in Britain*, March 1989)