

	¹⁵ N	²³⁵ U	³⁷ Cl			⁶⁰ Co		
				³ He		²³⁵ U		
¹³¹ I	³¹ P		⁶⁰ Co			¹⁴ C		
³⁷ Cl			³ He				¹⁴ C	
	¹⁴ C						⁵⁷ Fe	
	¹³¹ I			³⁷ Cl				²³⁵ U
		⁶⁰ Co			¹³¹ I	³¹ P	³ He	
		⁵⁷ Fe		¹⁴ C				
		¹³¹ I			⁶⁰ Co	⁵⁷ Fe	²³⁵ U	

³ He
³¹ B
¹³¹ I
⁶⁰ Co
¹⁴ C
¹⁵ N
²³⁵ U
⁵⁷ Fe
³⁷ Cl

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

Ga	F	Dy	Au	H	I	Cu	Eu	B
H	I	Eu	Ga	Cu	B	Au	F	Dy
Au	Cu	B	Eu	F	Dy	Ga	H	I
Dy	Ga	Cu	I	Au	Eu	F	B	H
Eu	Au	I	F	B	H	Dy	Cu	Ga
B	H	F	Cu	Dy	Ga	Eu	I	Au
I	Dy	Ga	H	Eu	Cu	B	Au	F
F	Eu	H	B	Ga	Au	I	Dy	Cu
Cu	B	Au	Dy	I	F	H	Ga	Eu

Solution to July 2006 Chemistry Su Doku

The winner of the July 2006 *Chemistry World* Su Doku competition is A R Lansdown, Swansea, 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 August.

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							

Across

- 1 Moulded polythene used in communication method (9)
- 6 This oil is produced by distillation from sulfur-containing petrol perhaps (5)
- 9 Interpret a citation that's only partially understood (5)
- 10 Add an element to bits of young grass consumed by animals having had a feed (9)
- 11 No gander can produce male sex hormone (8)
- 12 Norway lobsters obtained from rip current (6)
- 14 Distance cart travels backwards (4)
- 16 Acid obtained from fish, yellow one discovered in Lake Chad originally (10)
- 18 Introduces novel chemical reactions (10)
- 19 Smooth metallic element (4)
- 21 Third-stream class in first year at school possibly makes this acid (6)
- 22 Salt from Chile stirred with rod (8)
- 25 Fences such as may be used with 8 down (9)
- 26 More than one article is about ace dropped from team (5)
- 27 Offensive name given to a place of debauchery (5)
- 28 One who uses 8 down is calm during rough ride (9)

Down

- 1 Reduced form of this solvent is treated initially with hydrofluoric acid (15)
- 2 Added alcohol, perhaps, making up ten litres? (5)
- 3 Liquid drug prepared from cannabis – one to get on (6)
- 4 E.g. erosions involved in the formation of mountains (10)
- 5 Toy you break the end off twice (2-2)
- 6 Current source is dropped after penning terrible clue (4,4)
- 7 He has difficulty talking about r-rugs showing repeated hesitation (9)
- 8 Invention with large capacitor – it will find use in a laboratory (6,9)
- 13 Plants producing shea nuts possibly after a century (10)
- 15 Changes the address of queen. It's discreet somehow (9)
- 17 Pungency equals sourness. That's about right (8)
- 20 Perhaps bowler is succeeding so one slashes (6)
- 23 "Perfect" as a bridge player might possibly say (5)
- 24 Be in charge of toxic metal (4)

Solution to July 2006 crossword

The winner of the July 2006 *Chemistry World* crossword competition is R Dorrington, Chelmsford, UK

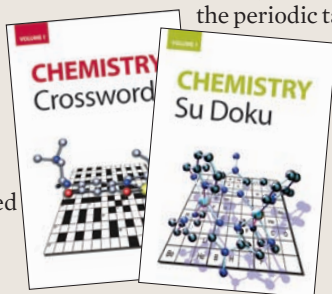
The winner of this month's crossword will be published next month. For a chance to win a £25 book voucher, please send your completed crossword to the address on p2 or fax to +44 (0)1223 426017 by 12 August.

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

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