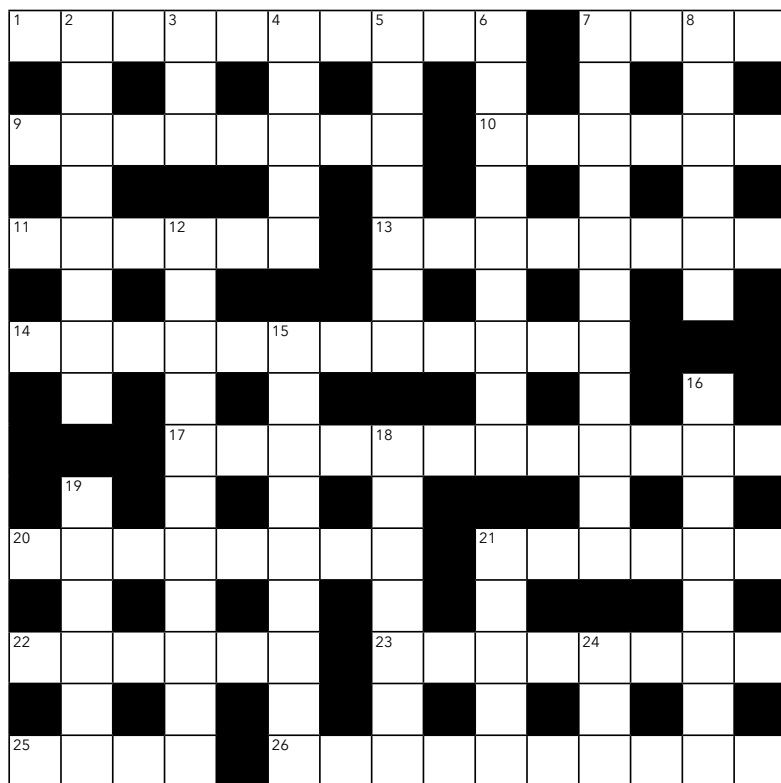


November 2023 crossword



November 2023 wordoku

S					Z		M	D	D
	O	D	M				L		E
					N				I
		Z	D			M			L
L			E		M			S	M
		M			S	Z			N
			N						O
	E				D	L	I		S
N	I		S					M	Z

Solve this wordoku in the same way as a sudoku with letters instead of numbers (each of the nine letters in each row, column and nine-square cell). Once solved, one of the overall diagonals can be rearranged to give a 'reserve antibiotic' discussed in a recent issue of *Chemistry World*.

Cryptic

Across

- Winsome lie about the philosopher (6, 4)
- Physicist even ignored biopsies (4)
- Lies about menu having an essential element (8)
- Northern Euro nation has some nerve! (6)
- Tests the patterns (6)
- Clue about shed plan (8)
- Right about new deferral for the Swiss chemist (6, 6)
- Danish chemist melted normal amalgam (6, 6)
- First amour leaves Chelsea mixed up with her heartless astronomer (8)
- Gen Y cross about love in the air? (6)
- Perhaps Rome is something similar but different (6)
- Oddly Pa's canapes turn into cure-alls (8)
- Even magnetos can be such little workers (4)
- Alert enemy about something pretty basic (10)

Down

- Chef lies about something in the freezer? (3, 5)
- Oddly ignored source rock (3)
- Radiates initially ethereal mist abroad (5)
- Altogether makes sense without Kes around (2, 5)
- Metal discovered in outer Latvia (9)
- Could barely disturb the soil (7, 4)
- Damaged lips to repair (6)
- Morse endlessly mooches around for genetic markers (11)
- Nebula like Black Beauty? (4, 5)
- Vulgar couple? They are complementary! (4, 4)
- Shadow the Spanish epics on arrangement (7)
- Reduce the instruction on the radio (6)
- The Big Cat who sounds small (5)
- Slice crusts oddly (3)

Quick

Across

- Impervious to H₂O (10)
- 7, 21 Down New Zealand-born crystallographer known for their work on hydrogen bonds (4, 5)
- One who expects the best (8)
- C₂H₄ (6)
- Surprises (6)
- Profession which owes its etymology to the Latin for element 82 (8)
- Vaccination pioneer (6, 6)
- Thermoplastics formed from the monomer C₈H₈ (12)
- Rainstorm (8)
- English biochemist who won the Nobel prize in chemistry twice (6)
- Atoll which was a site for nuclear weapon testing (6)
- A composition of two or more components, each of which freezes and melts congruently (8)
- The _____ - Lambert Law predicts the concentration of chemical species that absorb light (4)
- A branch of geology (10)

Down

- Organic compound with the functional group R-CH=O (8)
- Geological chronological unit (3)
- Couples (5)
- Consisting of eight parts or things (7)
- Inverse of wavelength (9)
- US physicist who was awarded the Nobel prize in physics twice (4, 7)
- Linear alkane with the formula C₉H₂₀ (6)
- Co-recipient of the 2020 Nobel prize in chemistry for work on genome editing (11)
- Form of colour-blindness named after an English chemist who was affected by the condition (9)
- Cutting off (8)
- Profession of Joseph Lister (7)
- Halogen discovered in seaweed (6)
- See 7 Across
- Unit of energy (abbrev) (3)

November 2023 science scramble

Similar to a word ladder, each answer below provides letters that must appear in the answer immediately following it. The puzzle's final answer is a scientist or someone who contributed to science.

For example:

1 sail, 2 snail, 3 saline, 4 minerals, 5 Neil Armstrong

- 1 Operated (3)
- 2 Precipitation (4)
- 3 Chemical weapon (5)
- 4 Coaches (6)
- 5 Craftsperson (7)
- 6 Stories (10)
- 7 Swedish physical chemist (6, 9)

Entry form

There are four prize puzzles on this page: cryptic crossword; quick crossword; wordoku; and science scramble. For each puzzle, a winner will be selected from all the correct entries received and awarded a £25 UK book voucher.

You can enter any or all of the prize draws, but each entrant is only eligible to win one of the individual puzzle prizes each month.

Please enter your details below and email a scan or photograph of this page with your completed entries to us by **20 November 2023**. The winners of this month's puzzles will be published in the December 2023 issue, along with the solutions.

Email: chemistryworld@rsc.org

Name

Address

Participants are advised that any personal information supplied will be processed in connection with this competition and only in accordance with our privacy statement (www.chemistryworld.com/privacy).

Quick quiz:

- Which sci-fi writer was a professor of biochemistry at Boston University?
- One of the above writer's stories was *Sucker Bait* in which an element caused the deaths of people exploring the planet 'Junior.' Which element?
- Which sci-fi writer co-founded Diabetes UK and wrote about stealing a radioactive material called 'quap' in his novel *Tono-Bungay*?
- Jules Verne's 1865 *From the Earth to the Moon* featured a spaceship made from an element discovered almost 40 years earlier. Which element?
- In 1818, Mary Shelley wrote what was arguably the first sci-fi novel, from which the following quote is taken. What was it?

'Chemistry is that branch of natural philosophy in which the greatest improvements have been and may be made; it is on that account that I have made it my peculiar study; but at the same time, I have not neglected the other branches of science.'

Solutions: 1. Isaac Asimov 2. Beryllium 3. H G Wells 4. Aluminium 5. Frankenstein

November 2023 Word grid

Use the element symbols from the panel on the right to complete the word grid below.

S			O	S
		S		I
		O		Ne
Er				
S	I			S

Au	C
Es	H
Li	Lv
Re	Ta
Te	W

October 2023 solutions and winners

Cryptic

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

Quick

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

Wordoku

The US bioanalytical chemist born in Argentina was (Facundo) FERNANDEZ

Science scramble

- 1 Ger; 2 Gear; 3 Range;
- 4 Sanger; 5 Ranges;
- 6 Arranges; 7 Agnes Arber

Ba	La	N	Ce	S
S		O		H
Al	Fr	Es	C	O
Ti		I		W
C	U	S	H	Y

October winners

Science scramble
Steven Anderson
Cheltenham, UK

Wordoku
Thomas McClymont
Bottmingen, Switzerland

Cryptic crossword
Steven Strawson
Winnersh, UK

Quick crossword
Bela Kantor
Bristol, UK