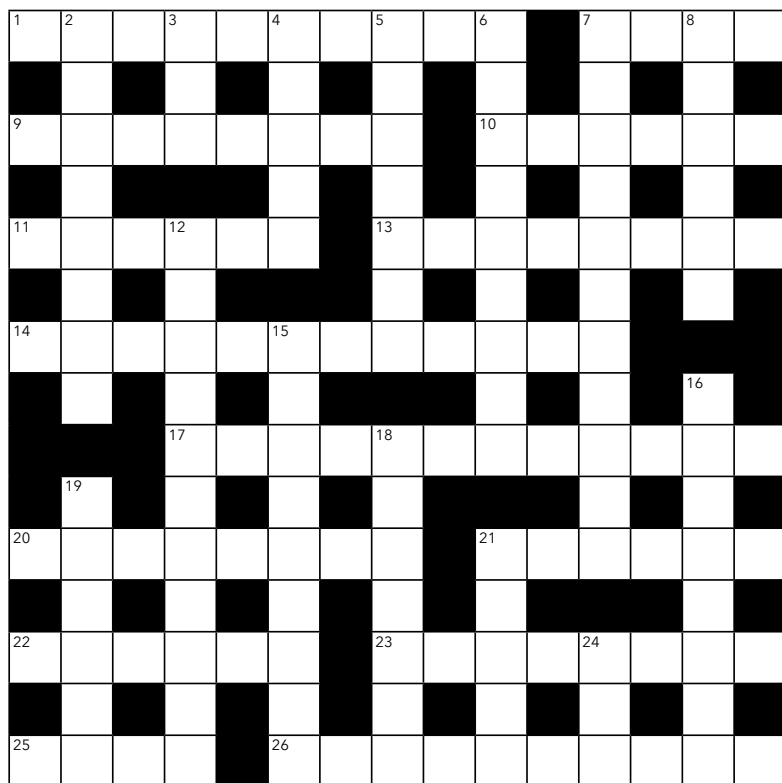
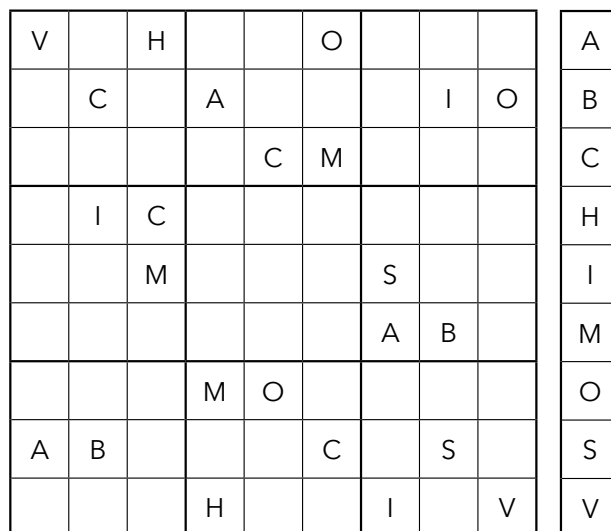


September 2022 crossword



September 2022 wordoku



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 the name of a Dutch-Bosnian researcher known for their work on biomaterials.

Cryptic

Across

- 1 Created gin cocktail to scale (10)
- 7 Endless fuss before final coffee blend (4)
- 9 See 4 Down
- 10 Monday's manic energy producer? (6)
- 11 Maybe first lieutenant's maps a matter of state? Quite the reverse! (6)
- 13 I care about bat microorganisms (8)
- 14 Cremation container in India surprisingly (12)
- 17 Inventor shoots maiden on arrangement (6, 6)
- 20 City that's not going to win reportedly (8)
- 21 Style snobs love particular things (6)
- 22 Wail about a primarily misunderstood country (6)
- 23 Labels bearing cryptic messages from the pub? (8)
- 25 Complaint about livestock living quarters by the sounds of it (4)
- 26 Minor clips about the optical device (5, 5)

Down

- 2 With the French, they synthesise extremely niche compound (8)
- 3 Can last person turn it around? (3)
- 4, 9 Across Perhaps turn the beggar into an activist (5, 8)
- 5 I leave Gabriel a form of maths (7)
- 6 Cracked inner code to reveal corporate system (9)
- 7 Rinsing leaf can produce source of keratin (11)
- 8 Tim returns to aggregate at the peak (6)
- 12 Flash elitist clan abroad (11)
- 15 Oscar redesigns involute for development (9)
- 16 Engineers construe answers (8)
- 18 Somehow I blame Charlie for the old apparatus (7)
- 19 Metal bolt cast with a little carbon (6)
- 21 She's a rock (5)
- 24 Paddle around Rotorua after tour departs (3)

Quick

Across

- 1 German chemist known for his work with Carl Bosch on the synthesis of ammonia (5, 5)
- 7 First name of the first person to walk on the moon (4)
- 9 Organic reaction where two or more molecules combine to form a larger one (8)
- 10 Vitamin C deficiency (6)
- 11 Substance with a high pH (6)
- 13 Female sex hormone (8)
- 14 Early type of projector (5, 7)
- 17 The P in CPD (12)
- 20 ClO₃⁻ (8)
- 21 Island named Belaforme by Christopher Columbus due to its beauty from afar (6)
- 22 Italian mathematician known for their work on calculus (6)
- 23 Element discovered in Sweden in 1802 by Anders Ekeberg (8)
- 25 Part of the Thames flowing through Oxford (4)
- 26 Materials such as natural rubbers and polybutadiene (10)

Down

- 2 Rhodophyta (3, 5)
- 3 New Zealand bird (3)
- 4 Caribbean country (5)
- 5 Natural resin used in perfumes and incense (7)
- 6 Opposers (9)
- 7 Thermonuclear weapon (7, 4)
- 8, 16 Down Nobel laureate known for their work on surface chemistry (6, 8)
- 12 A type of steel making (4, 7)
- 15 Doppelganger (9)
- 16 See 8 Down
- 18 Star named after one of the seven sisters of Greek mythology (7)
- 19 Viruses that infect bacteria (6)
- 21 Belief (5)
- 24 Goal (3)

September 2022 science scramble

Similar to a word ladder, each answer provides letters that must appear – including duplicates – 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 Computer equipment (2)
- 2 Creator of the World Wide Web (3)
- 3 Brand new (4)
- 4 Glove (6)
- 5 In love (7)
- 6 Lotions (9)
- 7 Discoverer of iridium and osmium (8, 7)

Quick quiz

- Which crime writer turned their hospital dispensary experience to good use in many of their novels. And can you name a title that includes the name of the poison used?
- What plant-derived toxin killed the Bulgarian dissident Georgi Markov?
- What poison was used in Dorothy L Sayers’ novel *Strong Poison*?
- The notorious serial killer Graham Young’s conviction was assisted by analysis of one of his victim’s cremated ashes. What was the poison?
- Which Swiss alchemist and early toxicologist introduced the idea that ‘the dose makes the poison’?

Solutions: 1. Agatha Christie (*Sparking Cyanide*); 2. Ricin (derived from the seeds of the castor oil plant); 3. Arsenic; 4. Thallium; 5. Paracelsus (Theophrastus von Hohenheim)

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 September 2022**. The winners of this month’s puzzles will be published in the October 2022 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).

September 2022 Word grid

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

C		S		C
C		I		S
I				H
	C	H	I	

Al	As
Au	Es
No	O
Tc	Te
Ti	W

August 2022 solutions and winners

Cryptic

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

Quick

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

Wordoku

The element was NEODYMIUM

Science scramble

1 Be; 2 Bet; 3 Belt;
4 Betel; 5 Bethlehem;
6 Elizabeth Fulhame.

Word grid

H	Er	O	I	C
O	P	O		
U	N	I	Te	S
Se	At	Mo		
S	I	Es	Ta	S

August winners

Science scramble
Rachel Sirotnina
Cambridge, UK

Wordoku
John Wilkins
Bedford, UK

Cryptic crossword
Bernard Costello
Dorking, UK

Quick crossword
Ernest Ward
Liphook, UK