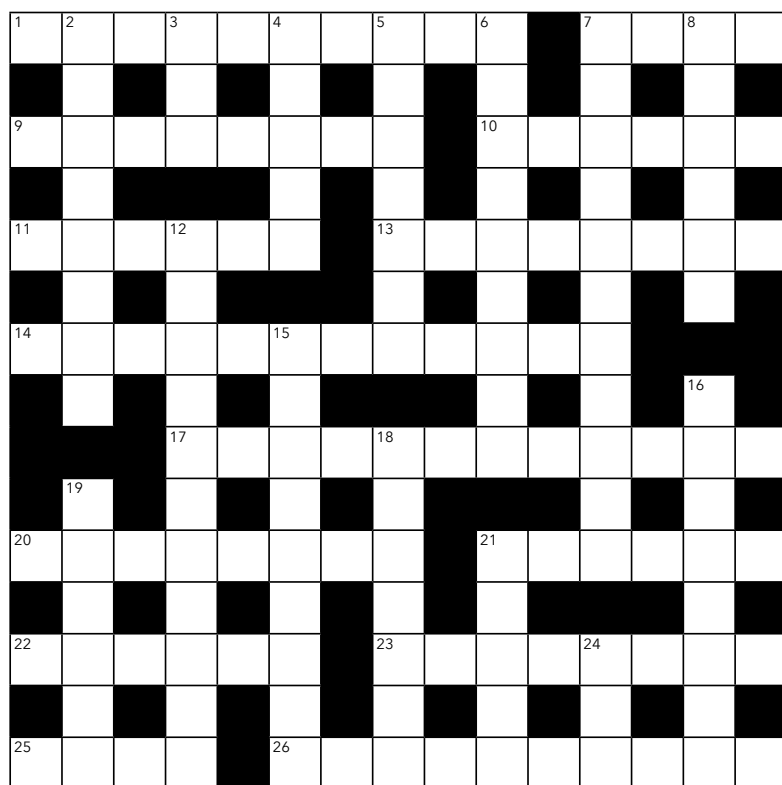


## July 2025 crossword



## July 2025 wordoku

N				M			E	L	A
L				U	D				D
				L		E			E
		N					M	D	L
D	U							A	T
	L	M					E		N
				T		D			S
					U	S		E	T
M	A				E				S

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 family of hydrocarbons.

## Cryptic

## Across

- 1 Doctor sent lassie for basics (10)
- 7 A wee measure? (4)
- 9 Metal mobile unit it left on arrangement (8)
- 10, 2 Down Chemist adds starter for style (6, 8)
- 11, 19 Down Tell warder about Ed the bomb maker (6, 6)
- 13 Novel countries for the British chemist (8)
- 14 Physicist alerts Newton abroad (6, 6)
- 17 Engineer toting arcane fuel classification (6, 6)
- 20 Evil leer turning into a wake-up call (8)
- 21 Grow a team reportedly (6)
- 22 Small elephants reveal something genetic (6)
- 23 Oddly alone, likes to upset the Japanese physicist (3, 5)
- 25 Flower found in 3? (4)
- 26 Quiz chauffeur who puts the new car through its paces? (4, 6)

## Down

- 2 See 10 Across (8)
- 3 Optical apparatus - sounds like a yes from Scotland (3)
- 4 Attempted new diet without resistance (5)
- 5 Initially not having helped hide the compound (7)
- 6 Perhaps worst fate having fewer minerals in the drink? (4, 5)
- 7 Somehow imagined cat with a certain repellent property (11)
- 8 Letters about an aged plan (6)
- 12 Worked on one ammeter's gauges (11)
- 15 Order a hot latte for H? (5, 4)
- 16 Not all outrun buck left for release (8)
- 18 Badgers on the Isle of Wight? (7)
- 19 See 11 Across (6)
- 21 Clearly permitted in conversation (5)
- 24 I seek extreme form of travel (3)

## Quick

## Across

- 1 See 9 Across (10)
- 7 Subatomic particle (4)
- 9, 1 Across Astronomer celebrated in the name of an element (8, 10)
- 10 Applaud (6)
- 11 Location of the Guggenheim Museum in Spain, which is covered with plates of titanium (6)
- 13 Nickname for British PM who studied chemistry at Oxford under Dorothy Hodgkin (4, 4)
- 14 The molecular study of rocks (12)
- 17 Taking in again (12)
- 20 Algebraic equation (8)
- 21 See 25 Across (6)
- 22 Enzyme which catalyses the transfer of phosphate groups (6)
- 23 \_\_\_\_\_ acid,  $\text{H}_2\text{NCOOH}$  (8)
- 25, 21 Across Writer of science books, one of which - *Conversations on Chemistry* - inspired Michael Faraday (4, 6)
- 26 Make, as in a chemical (10)

## Down

- 2 Substance which accepts electrons from another in a redox reaction (8)
- 3 The part of the mind that deals with reality, according to Freud (3)
- 4, 21 Down New Zealand crime writer who frequently used poisons, such as cyanide and thallium, in their novels (5, 5)
- 5 Nasa-led space mission which studied Saturn and its moons, named after an astronomer (7)
- 6 Fan (9)
- 7 Marine bivalve mollusc whose inner surface is known as nacre (5, 6)
- 8 See 12 Down (2, 4)
- 12, 8 Down  $\text{NaHCO}_3$  (11, 2, 4)
- 15 Auditors (9)
- 16 Fruits of a common flowering plant, rich in vitamin C (8)
- 18 \_\_\_\_\_ Valley in California, famous for its global technology companies (7)
- 19 Major component of sand and an oxide of 18 Down (6)
- 21 See 4 Down (5)
- 24 Donkey (3)

## Quick quiz:

1. Which British chemist won the Nobel prize in chemistry for his discovery of noble gases?
2. Which naturally occurring radioactive gas can cause a health problem with certain geologies, particularly in Cornwall, England?
3. Which noble gas is fictionally linked to Superman (and his dog!)?
4. Which is the most abundant noble gas in the Earth's atmosphere?
5. 'Krypton is \_\_\_\_\_, come and see for yourself,' wrote William Crookes after he had examined the spectrum of a tube of krypton and found a yellow line that coincided exactly with a line in the sun's spectrum. What is the missing word?

**Solutions:**  
1. William Ramsay 2. Radon 3. Krypton, Superman was born on the planet Krypton and his Achilles heel was Kryptonite. His dog was Krypto 4. Argon (0.93% by volume) 5. Helium

## Entry form

There are four prize puzzles on this page: cryptic crossword; quick crossword; wordoku; and coronene. 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 **21 July 2025**. The winners of this month's puzzles will be published in the August 2025 issue, along with the solutions.

Email: [chemistryworld@rsc.org](mailto: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](http://www.chemistryworld.com/privacy)).

Our puzzles are sponsored by Restek, leading provider of innovative and high-quality chromatography products, comprehensive technical resources and exceptional customer service.

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out, Restek remains committed to innovation, not imitation. Learn why innovation matters and how their Biphenyl LC column can help simplify your separations and advance your science today: [restek.com/biphenyl](http://restek.com/biphenyl)



## July 2025 coronene puzzle

Place each of the seven element symbols in one hexagon of coronene to spell three words, one horizontally and two diagonally. Plural words are allowed, but you may not switch the order of the letter in any two-letter symbols (eg, sodium must be Na, not aN). The four symbols in the central hexagon of each of this month's coronenes can be combined to spell out the name of a Swiss chemist and the first inorganic chemist to win the Nobel prize.

Elements:

A. Ag, Er, Es, Fe, O, S, W

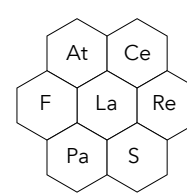
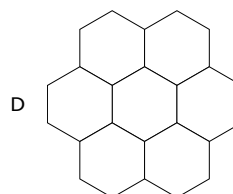
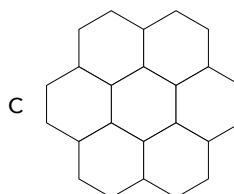
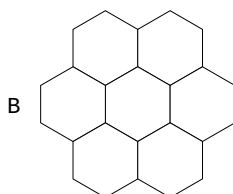
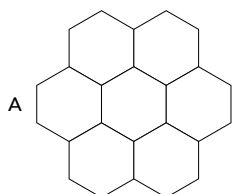
B. Al, B, Be, Er, H, S, Ts

C. Ba, Ds, K, N, Po, Ti, Y

D. Dy, Er, Ge, K, N, P, V

For example:

Answers:



Atlas  
Flare  
Palace

## June 2025 solutions and winners

### Cryptic

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

### Quick

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

### Wordoku

The substance which can pack together in 'peapod' structures was FULLERENE.

### Coronene puzzle

- A. Baby, Cabs, Cobra,  
B. Clues, Mouth, Suds  
C. Cache, Luck, Nacre  
D. Arks, Biker, Cakes

The American biologist who shared a Nobel prize for their work on the olfactory system was (Linda) Buck.

### June winners

**Coronene**  
Steven Anderson  
Cheltenham, UK

**Wordoku**  
Leslie Thelwall  
Reading, UK

**Cryptic crossword**  
Reg Dennis  
Sawbridgeworth, UK

**Quick crossword**  
Jim Jamieson  
Marlow, UK