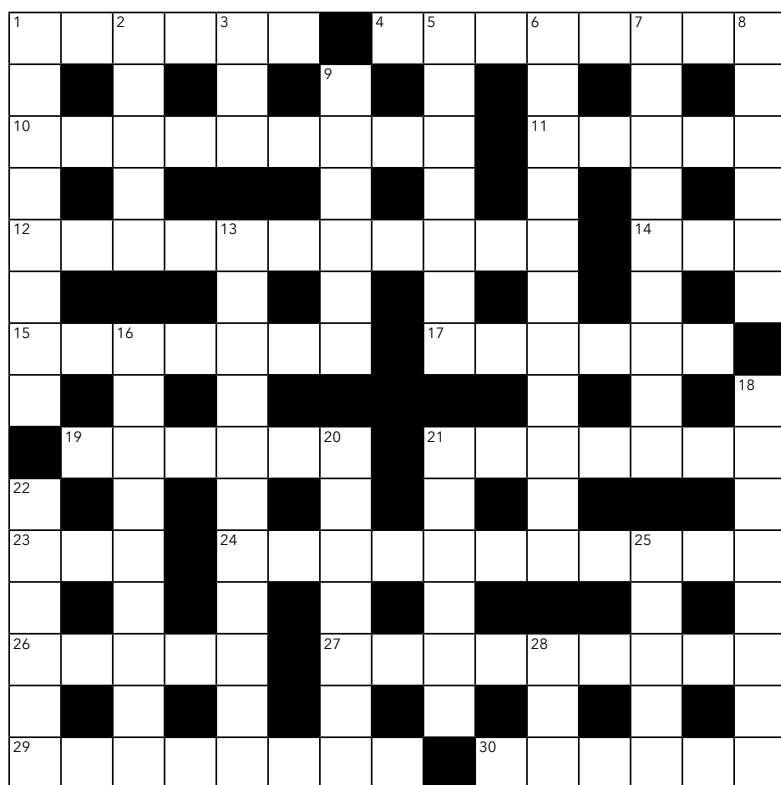
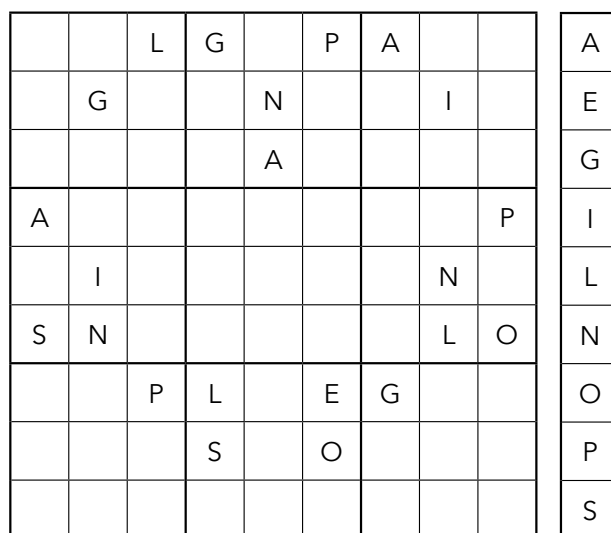


## October 2024 crossword



## October 2024 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 an Italian-born chemist working in the area of applied optical materials.

## Cryptic

## Across

- 1, 8 Down Elder trawled at sea for the physicist (6, 6)  
 4 Letters about Mama's tin spar (8)  
 10 Redesigned tech promo for this body type (9)  
 11 Court case right about French milk (5)  
 12 Physicist transmutes ferric ion with extreme enthusiasm (6, 5)  
 14 Some choice form of 2 Down (3)  
 15 Plastic tub Sue left for body parts (7)  
 17 First time this state of matter can become wooden (6)  
 19 Polish equipment to control pH? (6)  
 21, 9 Down Fancy flirt's red face gets a reaction (7-6)  
 23 Work therefore without love (3)  
 24 Doctors refer triage to chill (11)  
 26 A little sloe wine for the pharmacologist? (5)  
 27 Find Gabriel perhaps in march Angela attended (9)  
 29 By the sound of it, this girl could be explosive (8)  
 30 A bit of pasta then steak - capital! (6)

## Down

- 1 Men forging steel? We find them periodically! (8)  
 2 Excepting odd loss, Walter's solvent (5)  
 3 Memory of a sheep? (3)  
 5 Without Charlie, engineer searched for sticks (7)  
 6 A gas? NO! (6, 5)  
 7 If I upset caddie, could get vitriolic (9)  
 8 See 1 Across (6)  
 9 See 21 Across (6)  
 13 Element in formulaic compound (11)  
 16, 25 Down The Spanish gun strangely agreeable to pond life (4-5, 5)  
 18 Ordered initial operation with second class values? It's in the lungs! (8)  
 20 Bend in core fracture (7)  
 21 Maybe Chris finishing off for the physicist (6)  
 22 Made well - rich by the sounds of it? (6)  
 25 See 16 Down (5)  
 28 First appoint new temporary worker (3)

## Quick

## Across

- 1 Roman poet (6)  
 4 Compounds composed of carbon and a metal (8)  
 10 Chemist who was guillotined during the French revolution (9)  
 11 See 25 Down (5)  
 12 Element 109 is named after this physicist (4, 7)  
 14 Colour (3)  
 15 Computer programming language which gets its name from a shortening of 'formula translation' (7)  
 17 Tracks (6)  
 19 See 6 Down (2, 4)  
 21 Most courageous (7)  
 23 Imperial unit of pressure (abbrev) (3)  
 24 Physicist portrayed by Cillian Murphy in the eponymous film of 2023 (11)  
 26 Modern equivalent of a hieroglyph (5)  
 27 Metallic element such as lanthanum and holmium (4, 5)  
 29 Opiate alkaloid also known as paramorphine (8)  
 30 Strong coherent lights which get their name(s) from an acronym (6)

## Down

- 1 Time for 50% of population of radioactive atoms to decay (4-4)  
 2 Talks incoherently (5)  
 3 The 22nd letter of the Greek alphabet (3)  
 5 Public expressions of an opinion or subject (7)  
 6, 19 Across Old name for  $\text{NaHCO}_3$  (11, 2, 4)  
 7 Nebula which obscures part of the Milky Way's upper central bulge (4, 5)  
 8 Alfred Nobel's country of birth (6)  
 9 Sight (6)  
 13 A 1995 Nobel prize winner who studied the effects of CFCs on the ozone layer (5, 6)  
 16 Flatulence-causing trisaccharide (9)  
 18 Natural carbohydrates which turn blue-black with iodine (8)  
 20 Painkiller name derived from old Latin name for meadowsweet (7)  
 21 To the base 2 (6)  
 22 Optimistic (6)  
 25, 11 Across Radiochemist portrayed by Rosamund Pike in the 2019 film *Radioactive* (5, 5)  
 28 Geochronological unit (3)

## Quick quiz:

- 1 Brie Larson played chemist Elizabeth Zott in which 2023 Apple TV+ series, based on a 2022 novel by Bonnie Garmus?
- 2 Which 2007 black comedy stars Alan Rickman as a chemistry professor and Nobel prize winner?
- 3 In the TV series *Breaking Bad*, what does Walter White, a chemistry teacher turned drug maker, use to dispose of some bodies in a bathtub with the help of Jesse the drug dealer?
- 4 The 2021 film *Minamata* starring Johnny Depp is about a major pollution incident in Japan. Which toxic metal was involved?
- 5 Who connects these fictional elements: bolognium, frinkonium and jumbonium?

**Solutions:**  
 1. *Lessons in Chemistry* 2. Nobel 3. Hydrofluoric acid 4. Mercury 5. Matt Groening, US cartoonist and creator of *The Simpsons* and *Futurama*. Frinkonium is named after Professor Frink in *The Simpsons*. Jumbonium is an element with atoms large enough to be seen with the naked eye in *Futurama*. Bolognium features in both *Futurama* and *The Simpsons*.

## 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 **20 October 2024**. The winners of this month's puzzles will be published in the November 2024 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)).

## October 2024 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 letters 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 the name of an element.

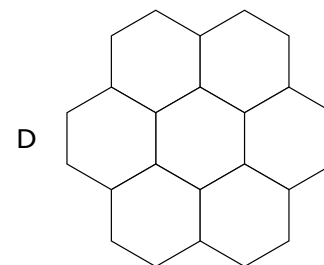
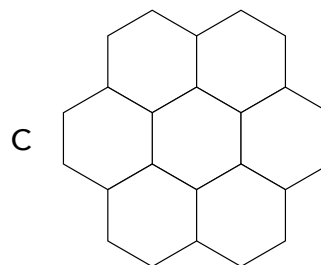
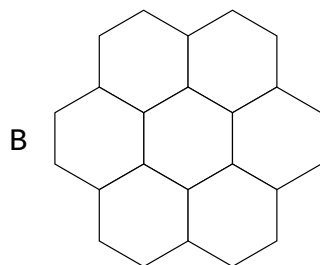
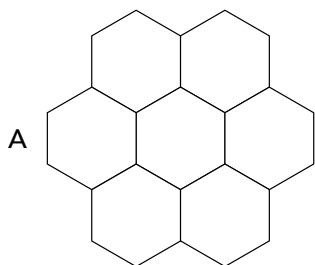
Elements:

A. Ar, Be, Co, Ds, Es, Fl, Se

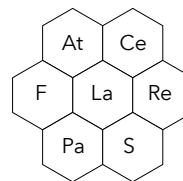
B. Ba, Ca, In, Re, S, Se, Ts

C. C, Co, Es, Fe, Ge, K, Ni

D. Ar, C, Er, K, Pu, Ra, S



For example:



Answers:

Atlas

Flare

Palace

## September 2024 solutions and winners

## Cryptic

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

## Quick

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

## Wordoku

The drug used to treat insomnia was TEMAZEPAM

## Coronene puzzle

- A. See correction on p4  
 B. Beers, Berth, Feral  
 C. Acids, Find, Thin  
 D. Genera, Lineal, Runes

The compound running across was serine.

## September winners

**Coronene**  
 See correction on p4

**Wordoku**  
 Brian Taylor  
 Bolton, UK

**Cryptic crossword**  
 Alan Kingham  
 Thirsk, UK

**Quick crossword**  
 Claude Evans  
 Cardiff, UK