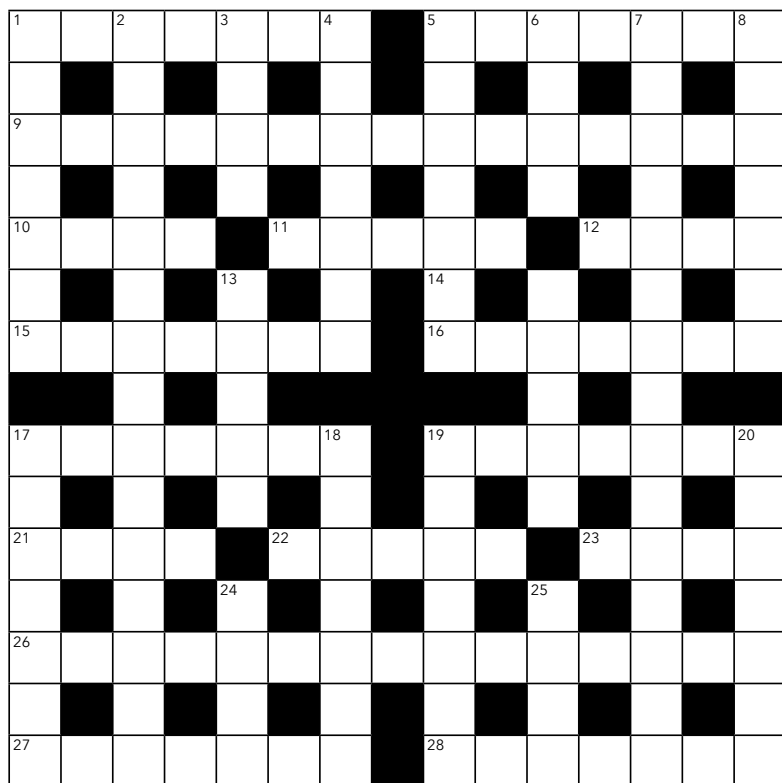
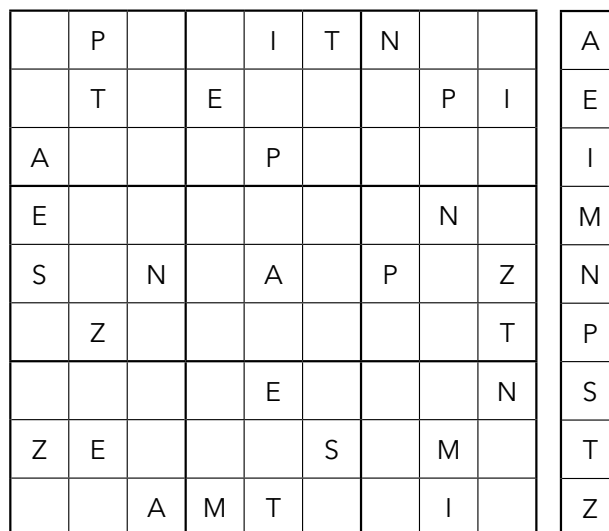


### September 2024 crossword



### September 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, rearrange one of the overall diagonals to give a drug used to treat insomnia.

#### Cryptic

##### Across

- 1 Inspected and arrested (7)
- 5 Bacteriologist treated endless coughing (7)
- 9 Thinnest man's not prepared for the chemist (8, 7)
- 10 Initially arranging London Symphony Orchestra as well (4)
- 11, 22 Across Ariel left out cerium compound for the radiochemist (5, 5)
- 12 Half the planters scheme (4)
- 15 Test drunken ex-marine right away (7)
- 16 Biological process born out of surprising stoicism Charlie abandoned? (7)
- 17 Mingle around fellow microbiologist (7)
- 19 Tailored Tory hid part of the body (7)
- 21 Remarkably uncomfortable to begin with (4)
- 22 See 11 Across (5)
- 23 Backing a little tidal tunnel (4)
- 26 Critical points which trounce past matches? (9, 6)
- 27 I left Irene following pig home to compound (7)
- 28 He goes to press about the figures (7)

##### Down

- 1 Gush about Decca's first album (7)
- 2 Organic chemist rejoices over amylase (5, 5, 5)
- 3 Make-up fit for a merry old king reportedly? (4)
- 4 Convert an oxide into a solvent (7)
- 5 Old metal trim around a top naval uniform (7)
- 6 Wegener hiding something hereditary (4)
- 7 Chemist having *annus mirabilis* following King? (7, 8)
- 8 Aims for camping? (7)
- 13 Fat I piled on abroad - no energy left! (5)
- 14 Radical form of the extreme lobby (5)
- 17 Doctor making a fuss about you French? (7)
- 18 Sugar clogs tube even after a shake-up (7)
- 19 Three things Des found in old electrical equipment (7)
- 20 Hates writing about top trainer's steeds (7)
- 24 I will shortly be here by the sound of it (4)
- 25 Trap in game show (4)

#### Quick

##### Across

- 1 See 25 Down (7)
- 5 Liquid surfaces (7)
- 9 Rocket scientist (7, 3, 5)
- 10 Egg (4)
- 11 *The Double* \_\_\_\_\_ is a book by James Watson about the discovery of the structure of DNA (5)
- 12 American inventor of a safety device that prevents lifts falling if the cable fails (4)
- 15 See 24 Down (7)
- 16, 22 Across German chemist whose name is used in a rule about valence (7, 5)
- 17 Negatively charged electrode (7)
- 19 British chemist who shared the 1937 Nobel prize in chemistry for their work on vitamins (7)
- 21 Measures of current (abbrev) (4)
- 22 See 16 Across (5)
- 23 Demographic which followed the Baby Boomers and preceded the Millennials (abbrev) (3, 1)
- 26 Compounds with general formula RCOOH (10, 5)
- 27 Epigrams (7)
- 28 Coarse-grained metamorphic rocks (7)

##### Down

- 1 Polymath, astronomer, autodidact and author of the science-fiction novel *His Wisdom the Defender* (7)
- 2 Discoverer of francium (10, 5)
- 3 Reverberation (4)
- 4 Occupation of Joseph Lister (7)
- 5 More temperamental (7)
- 6 Ends of pens (4)
- 7 Swedish chemist who received the Nobel prize in chemistry in 1905 and subsequently became the director of the Nobel Institute (6, 9)
- 8 Dissociated into charged particles (7)
- 13 Type of reaction (abbrev) (5)
- 14 Grimace (5)
- 17 Probabilities (7)
- 18 Early developmental stage (7)
- 19 Husband and wife known for their pioneering work in astronomical spectroscopy (7)
- 20 Monosaccharides with the formula  $C_6H_{12}O_6$  (7)
- 24, 15 Across The only person to be awarded the Nobel prize in physics twice (4, 7)
- 25, 1 Across Measures of speed referenced to the speed of sound (4, 7)

## Quick quiz:

- 1 The elemental symbol for gold, Au, comes from the Latin *aurum*. AU is also a scientific unit. What does it stand for?
- 2 What element is used in the definition of the primary unit of time, the second, by the International System of Measurements (SI)?
- 3 The curie (Ci) is a non-SI unit of radioactivity, originally defined in 1910, based on the radioactive decay of an isotope of which element?
- 4 Which elements have the same symbols as the SI units for: inductance, capacitance, force and electrical potential difference?
- 5 What connects the SI unit of electrical resistance, units of conductance, and a scale of mineral hardness?

**Solutions:**  
 1. Astronomical unit 2. Caesium 3. Radium 4. Hydrogen (H, henry); Fluorine (F, farad); Nitrogen (N, newton); Vanadium (V, volt) 5. They are all anagrams of each other (ohms, mhos and mohs).

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

## September 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 a compound.

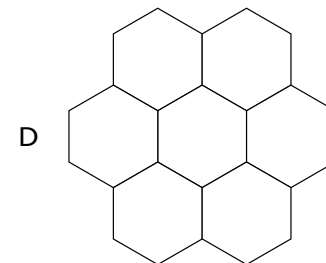
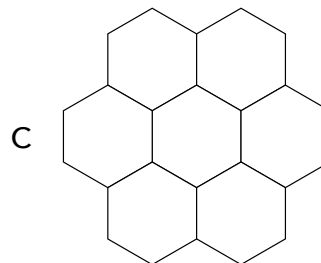
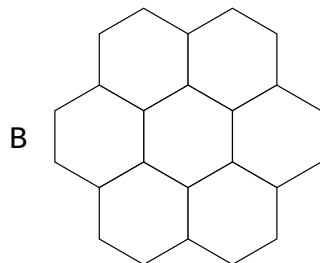
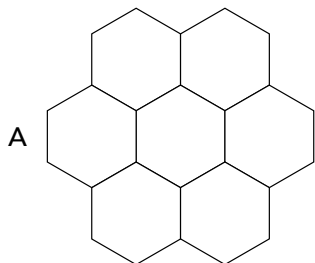
Elements:

A. H, Es, Nd, Po, Re, Ru, S

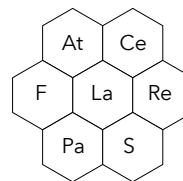
B. Al, B, Be, Er, F, S, Th

C. Ac, Ds, F, I, N, Nd, Th

D. Al, Ge, Li, Ne, Ra, Ru, S



For example:



Answers:

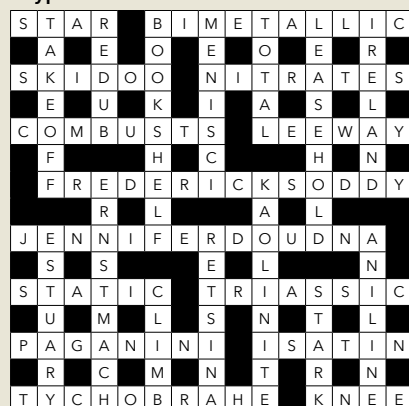
Atlas

Flare

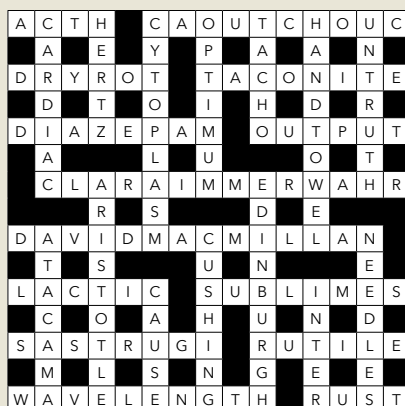
Palace

## August 2024 solutions and winners

## Cryptic



## Quick



## Wordoku

The only clergyman honoured with a Royal Society of Chemistry blue plaque was (Rev. Ron) LANCASTER

## Coronene puzzle

- A. Cabin, Cubits, Ibis  
 B. Alone, Broth, Crow  
 C. Batik, Motif, Patio  
 D. Candy, Monk, Ponds

The compound running across was biotin.

## August winners

**Coronene**  
 Louise Simpson  
 Banff, UK

**Wordoku**  
 Marco Albertini  
 Cambridge, UK

**Cryptic crossword**  
 Teresa Sinclair  
 Baldersdale, UK

**Quick crossword**  
 Reginald Darge  
 Usk, UK