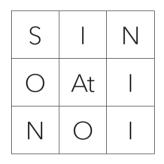
November 2018 wordoku

	S	Μ		0	Ν				E
E			Т						н
		Ρ		E				I	I
								Н	М
					Т		М		N
			Р					Т	0
М					Н		Е		Р
Ν		Н	I	Т		0			S
		I	Ν		М	Т			Т

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 into the name of a toxic gas.

November 2018 word grid



Prize entry: Using each element symbol in the grid only once, combine them together to make a single word of 10 letters.

Word.....

Just for fun: Construct as many other words as you can using a minimum of three symbols, and each symbol only once. 6 words: OK 9 words: Good 12+ words: Excellent

Entry form

There are four prize puzzles on this page: crossword (cryptic answers only); wordoku; molecule search; and word grid. For each puzzle, a winner will be selected from all the correct entries received and awarded a £25 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.

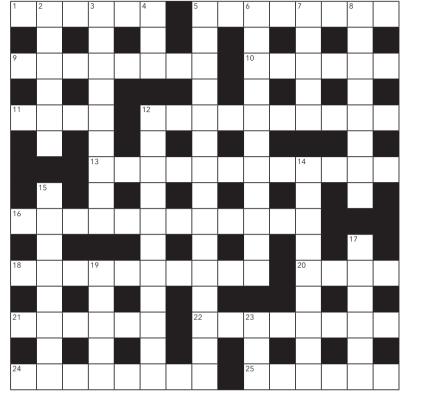
Please enter your details below and either post or email this page with your completed entries to us by **20 November 2018**. The winners of this month's puzzles will be published in the December 2018 issue, along with the solutions.

Chemistry World puzzles, Royal Society of Chemistry, Thomas Graham House, Science Park, Milton Road, Cambridge, CB4 0WF, UK Email: chemistryworld@rsc.org

Name

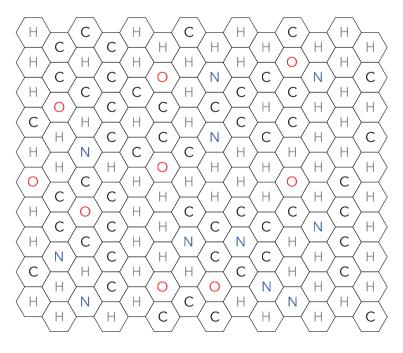
Address

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).



November 2018 molecule search

November 2018 crossword



Connect atoms in adjacent cells using single or multiple bonds to reveal the hidden molecule. The hexagonal grid necessitates some minor distortion of bond angles.

Find this molecule $C_{12}H_{17}NO$

Clue: This month's molecule is an aromatic tertiary amide that will keep the bugs away.

Cryptic (prize entry)

Across

- 1 Authorises advances (6)
- 5 Clean vessel in the prairies? (4, 4)
- 9 Sirs, can I order flowers? (8)
- 10 Moses leaves some insulin for polysaccharide (6)
- 11 Microbiologist synthesises potassium hydroxide with leading , chemist (4)
- 12 Not even Ronald keen about zoo naturalist (6, 4)
- 13 See 25 Across (12)
- 16 Crave endless learning about part of the body (7, 5)
- 18 We bleed around oddly erect plant (10)
- 20 Get rid of outhouse (4)
- 21, 24 Across Nuclear physicist raved about his anorak (6, 8)
- 22 5 Down's prediction near book adaptation (3-5)
- 24 See 21 Across (8)
- 25. 13 Across Sort of fancies hearing from pianist (6, 12)

Quick (just for fun) Across

- 1, 10 Across Father of modern
- genetics (6, 6) Area within Europe which 5
- facilitates free movement between nations (8)
- 9 Captivating (8) 10 See 1 Across (6)
- 11 First name of the author of Frankenstein (4)
- 12 Gloomy or referring to a tomb (10)
- 13 Study of physical and biological aspects of the Earth's major water bodies (12)
- 16 Coin collectors (12)
- 18 Ordered by doctor or pharmacist (10)
- 20 Midday (4)
- 21 Stone bracket (6)
- 22 Famous physicist (8)
- 24 Tidal waves (8)
- 25 Kenyan city (6)

On the spot

Down

- 2 Warrior found oddly around endless maze surprisingly (6) Sweet chairs can be rearranged 3
- (9)4 Oddly spots request for
- assistance (3)
- 5 On arrangement, Tim delivered men to Russian chemist (6, 9)
- 6 Songster Stewart on a bike? No it's something for the anglers! (8, 3)
- 7 One Italian upset extremely bitter philosopher (5)
- 8 Apply for a car wreck? (5-3) 12 Clear the lie about chemist of
- principle (2, 9) 14 Danish physicist broils hen terribly
- (5, 4) 15 Perhaps first express train in three-
- years? (8) 17 Keen to create compound (6)
- 19 Light chortle without the French around (5)

23 Fool some 1 Across (3)

Down

- 2 SI Unit for measuring angles (6) Biochemist and first American 3
- woman to win a Nobel prize in science (5, 4)
- 4 Bone in the chest (3)
- 5 Aids for insomnia (8, 7)
- 6 Equalised (11)
- 7 Beethoven Symphony which includes Ode to Joy (5)
- Optical washing devices (8) 8
- 12 Edible shellfish, a speciality of
- New England (7, 4) 14 Salts of element with atomic number 33 (9)
- 15 Containing copper (8)
- 17 One of the elements discovered by Davy (6)
- 19 Polish American medical researcher who developed the oral polio vaccine (5)
- 23 The three essential elements listed in many fertilisers (3)

October 2018 solutions and winners

Cryptic (prize entry)





Wordoku

Molecule search

The green chemist was Martyn POLIAKOFF

Word grid The nine-symbol word was INVERTEBRATES

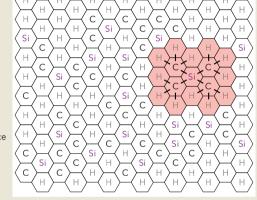
October winners

Molecule search Gianpiero Forte, Formia, Italy

> Wordoku Pauline Gazard, Saint-Genis-Pouilly, France

Word grid M N Wesley, Luton, UK

Crossword Tim Watkinson. Southampton, UK



The molecule was tetramethylsilane, a compound most chemists know as the internal standard for calibrating chemical shift in ¹H and ¹³C NMR spectra.

Emily Skinner is a publishing ethics specialist at the Royal Society of Chemistry

group before the study is complete.

facilitate this, it is good practice to maintain protessional contact with researchers who leave the be included in the process of finalising and approving the manuscript before submission. To authors will also be taking public responsibility for the published research and therefore should responsibility for tairly including all those who have contributed to the study's various stages. All expect to be listed as an author. The researchers writing up the study will need to take researchers who have made a significant contribution to a published study can reasonably Although accepted norms in authorship vary across different scientific disciplines, in general, Answer to On the spot

QUESTION OF AUTHORSHIP THE PROJECT IS NOW READY FOR PUBLICATION A RESEARCHER WHO HAS BEEN HEAVILY HE RESEARCHER WHO HAS LEFT HAS NOT BEEN INVOLVED IN A PROJECT LEAVES TO TAKE INCLUDED AS AN AUTHOR. UP AN INDUSTRY JOB IN ANOTHER COUNTRY. WHAT SHOULD THE GROUP DO?