

### May 2018 wordoku

		I			M			
E			H	A	T		S	
U			E					
	S						H	
T	A		M		E		R	S
	U						T	
					A			M
	M		T	H	S			E
			I			T		

A
E
H
I
M
R
S
T
U

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 geochemist who studied carbon dioxide levels in seawater.

### May 2018 word grid

N	O	At
Ge	O	Al
H	I	N

Prize entry: Using each element symbol in the grid only once, combine them together to make a single word of 12 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 May 2018**. The winners of this month's puzzles will be published in the June 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 .....

Email .....

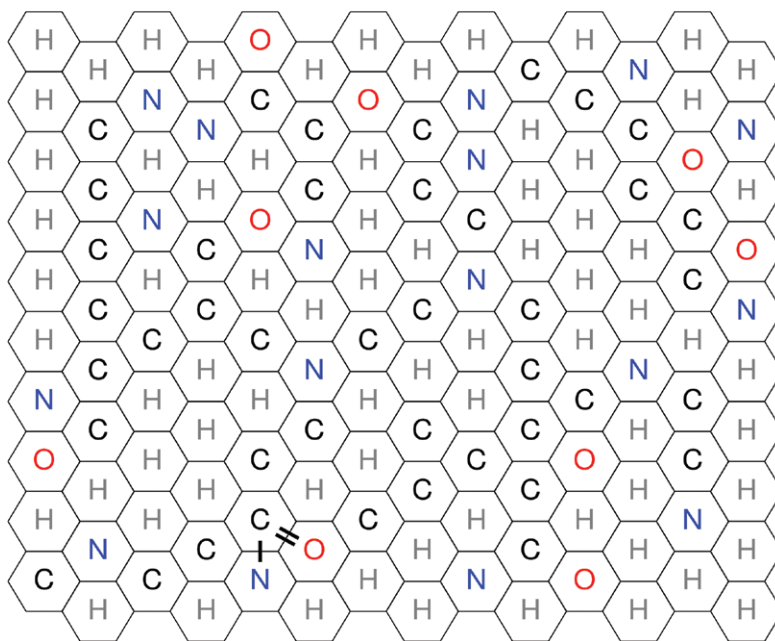
Tel .....

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)).

### May 2018 crossword

1		2		3		4		5		6		7		8
9									10					
11														
														12
13		14						15						
								16						
17								18						
								19						
														21
20														
22														
23								24						
25														26

### May 2018 molecule search



Connect atoms in adjacent cells using single or multiple bonds to reveal the hidden molecules. The hexagonal grid necessitates some minor distortion of bond angles, for example in five-membered or large rings.

Find this molecule. We've already put in two connections to get you started.  
 $C_{22}H_{48}N_{10}O_4$

Clues: This molecule is the first few chains of a repeating dendritic polymer. You may find a clue in one of this month's features.

**Cryptic (prize entry)****Across**

- Redesigned own chromium headwear (5)
- Put together meals Deb's cooked (9)
- Spooner's rock coach creepy-crawly (9)
- Volume literally translated without ally (5)
- Think about good hydro for crystallographer? (7, 7)
- 13, 18 Across That great charmer confused previous prime minister (8, 8)
- Hellenic ad must include Greek hero (6)
- That is Dido creating salt (6)
- See 13 Across (8)
- Spin around so unsocial painter (7, 7)
- Artist creates halo around king's head (5)
- Heavy metal briefly at the heart of opus (9)
- Parka sent to Russian writer? (9)
- It detects airplanes coming-both ways! (5)

**Quick (just for fun)****Across**

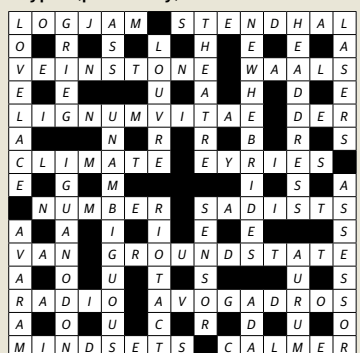
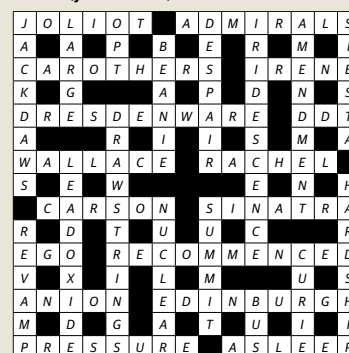
- 15 Across, 18 Across World's largest particle accelerator (5, 6, 8)
- First class at primary school (9)
- Not liked (9)
- Give out (5)
- Italian scientist famous for his number (6, 8)
- Helped (8)
- See 1 Across (6)
- Seasoned sailor (6)
- See 1 Across (8)
- Clupea pallasi* (7, 7)
- Poisonous rye fungus responsible for the affliction known as St Anthony's Fire (5)
- 24, 22 Down Electric cable for providing power away from the main source (9, 4)
- Dry (9)
- Relating to sound (or a hedgehog!) (5)

**Down**

- A medico icy around midges (10)
- Award in Carlo's care (5)
- One rather transformed London compound (15)
- Tested Dylan about odd shapes (8)
- Lochs love to educate (6)
- Mount giant mural about unwanted growth (9, 6)
- Drug limit around outskirts of Honolulu (7)
- Colours and perishes reportedly (4)
- Stargazer rents a room on arrangement (10)
- Surprisingly she's fired the animals! (9)
- Chum ordered pink furry thing (8)
- Paint a sort of snake (6)
- Saw soldiers passing in every direction at the front (5)
- Sip first Kirsch cocktail? Leave it out! (4)

**Down**

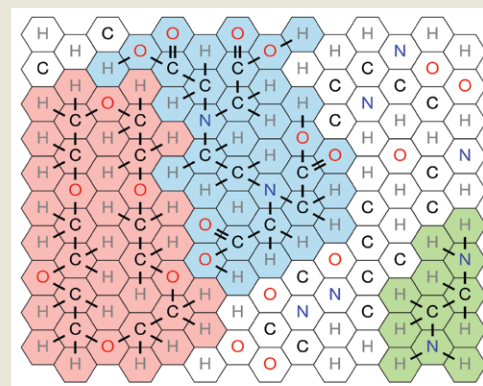
- Italian physicist, first woman to obtain a professorship in physics in a European university (5, 5)
- Currency of India (5)
- Artistic like Munch for example (15)
- Let go (8)
- Non-metallic element (6)
- Top dancers (5, 10)
- Underwriter (7)
- French physicist, Nobel laureate for physics in 1970 for work on the magnetic properties of solids (4)
- Having hormonal effects on male characteristics (10)
- Genus of heart urchins (9)
- Small handbag (8)
- Mexican fresco artist (6)
- King of the Lapiths (Greek mythology) (5)
- See 24 Across (4)

**April 2018 solutions and winners****Cryptic (prize entry)****Quick (just for fun)****Wordoku**

The Swedish chemist was Baron Axel Fredrik CRONSTEDT

**Word grid**

The nine-symbol word was UNCERTAINTIES

**April winners****Molecule search**

Graeme McArdle, Durham, UK

**Wordoku**

Katie Bell, Whitehaven, UK

**Word grid**

Rona Gottesmann, Halstead, UK

**Crossword**

Ian Reid, London, UK

The three molecules are polydentate (many-teethed) ligands: ethylenediamine, ethylenediaminetetraacetic acid (EDTA) and 1,4,7,10,13,16-hexaazacyclooctadecane (18-crown-6).

**On the spot**

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

Many journals operate a single blind peer review system, meaning that the submitted manuscript is confidential until publication. Peer reviewers and editors are required to abide by professional conduct standards, protecting the interests of authors who submit work. Guidelines published on journal websites include an expectation that reviewers will not use the content of the submitted manuscript to unfairly advantage their own research. In this case, the reviewer could contact the journal editor for advice and to declare their conflict of interest. They could also excuse themselves entirely from their role as peer reviewer for this manuscript. The reviewer may feel they can still review objectively and not use the information in the submitted manuscript to influence their research. However, they should carefully consider the consequences that may arise if the undeclared conflict of interest becomes known.

**Answer to On the spot**