

### August 2019 wordoku

		T	A		S	M		
	B						A	
T			B	A	L			S
	I		D		T		M	
	N	M				I	B	
B			T		D			M
A	T			B			L	N

A
B
D
I
L
M
N
S
T

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 an English chemist who devoted most of their career to science policy in the European Commission.

### August 2019 word grid

Er	O	S
Ti	P	S
N	U	Ti

**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

### August 2019 crossword

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

### August 2019 science scramble

Similar to a word ladder, each answer provides letters that must appear - including duplicates - in the answer immediately following it. The puzzle's final answer is a scientist or someone who contributed to science.

For example:

- 1 sail
- 2 snail
- 3 saline
- 4 minerals
- 5 Neil Armstrong

### Entry form

There are four prize puzzles on this page: crossword (cryptic answers only); wordoku; science scramble; 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 August 2019**. The winners of this month's puzzles will be published in the September 2019 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](http://www.chemistryworld.com/privacy)).

1	African river (4)
2	Reindeer food (6)
3	Halogen (8)
4	Books of the Old Testament (10)
5	Astronomer who discovered several comets (8, 8)

## Cryptic (prize entry)

## Across

- 1 Dirac craves a little capital (5)
- 4 Bird low about a swine (4, 4)
- 8 Glance around Metro set - attractive things when turned on? (14)
- 10 My initial ideas about organic compounds (6)
- 11 One of 8 Across surprisingly soon idle (8)
- 13 Girl prepared apple for violinist (9)
- 14 Lay aside leathery liquid (5)
- 15 Scottish scientist ordered reward right away (5)
- 17 Has too many Dover soles left out somehow (9)
- 19 Add weight of feathers? (4, 4)
- 20 Bird adapted to cave (6)
- 23 Bob's not in error about this chemist (6, 8)
- 24 Toes curled, Eric follows. Mysterious! (8)
- 25 Saucy Sue's gutted about Sally being left out twice (5)

## Down

- 1 Stage some rare names (5)
- 2 New plasma choice converted nerve agents (8, 7)
- 3 Parent starts wandering around city (7)
- 4 Primarily willow or other deciduous timber (4)
- 5 Toxins axed oldies abroad (4, 6)
- 6 Zulu been around north east compound (7)
- 7 So psychiatrists turning to stargazers? (15)
- 9 Reads about love and loves! (6)
- 12 Somehow leading weatherman foretold a torrent (10)
- 13 Heartless Fay glad about pest? (6)
- 16 Surprisingly rated me? What's the beef? (3, 4)
- 18 Botanist derives somewhat differently (2, 5)
- 21 Beer down under perhaps metallic? (5)
- 22 A little suitor chose ring (4)

## Quick (just for fun)

## Across

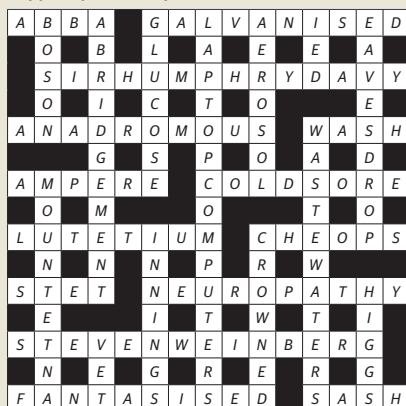
- 1 One of the scientists who elucidated the double helix structure of DNA (5)
- 4 Vertical part of the guttering of a building (8)
- 8 Parts of home entertainment systems, often found down the sofa (6, 8)
- 10 Element discovered by Carl Gustav Mosander in 1843 (6)
- 11 Sauce named after Louis XIV's head steward (8)
- 13 Form of colour blindness named after an English chemist (9)
- 14 Country in the Middle East (5)
- 15 Hereditary class of Hindu society (5)
- 17 See 3 Down
- 19 Largest lake in South America situated high in the Andes (8)
- 20 Edible shellfish (6)
- 23 Type of covalent coupling (10, 4)
- 24 Having the same osmotic pressure as another solution (8)
- 25 \_\_\_\_\_ Greenfield, neuroscientist and previous Royal Institution director (5)

## Down

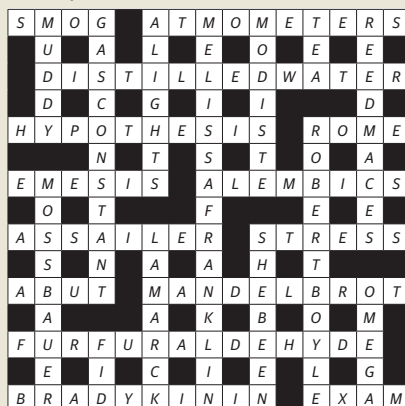
- 1 Temperature above which certain materials lose their permanent magnetic properties (5)
- 2 Restrictions of movement (15)
- 3, 17 Across Japanese geochemist known for work on environmental levels of carbon dioxide and radioactive fallout (7, 9)
- 4 Tube (4)
- 5 Largest natural lake in the Lake District and England (10)
- 6 Greek statesman and general, later King of Epirus (7)
- 7 Monomers getting together (15)
- 9 Base (6)
- 12 Cutting up (10)
- 13 Type of igneous rock (6)
- 16 Extract (7)
- 18 Dutch polymath (1629-1695) (7)
- 21 Noble gas (5)
- 22 Clay mineral having an absolute hardness of 1 on the Mohs scale (4)

## July 2019 solutions and winners

## Cryptic (prize entry)



## Quick (just for fun)



## Wordoku

The name of the Italian chemist was (Sergio) FACCHETTI

## Word grid

The nine-symbol word was PUBLICATION

## Science scramble

- 1 Car
- 2 Race
- 3 Acres
- 4 Creams
- 5 Screamed
- 6 Archimedes

## July winners

Science scramble  
John Wilkins,  
Bedford, UK

## Wordoku

Richard A Reed,  
Stoke-on-Trent, UK

## Word grid

John Wilson,  
Alfreton, UK

## Crossword

Colin Bedford,  
Amersham, UK

any of these cases it is important that changes are made to prevent a recurrence. She should close the sash, turn up the fans (if possible) and take a step back. Thankfully, this sort of lab accident is exactly what fume cupboards were designed to protect from. If the reaction does not run down on its own, she may need to neutralise the leftover solution. The more important question is how this happened - is it a question of lab tidiness, distraction or being tired? In

Charles Harrison is a safety adviser at a UK university.

## Answer to On the spot

## On the spot

