

### April 2020 wordoku

			G					
	S				M	R		
		G					M	
E		M			G		U	
		N	S					
	A			M				B
S	G			B	R	M		
	N	U	M				G	
		A			S			

A
B
E
G
M
N
R
S
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 to give the surname of a British biochemist and immunologist.

### April 2020 crossword

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

### Entry form

There are four prize puzzles on this page: cryptic crossword; quick crossword; wordoku; and science scramble. For each puzzle, a winner will be selected from all the correct entries received and awarded a £25 UK book voucher, or alternative of equivalent value for non-UK residents.

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.

**This month we can only accept electronic entries for the puzzle competitions.** Please enter your details below and email a scan or photograph of this page with your completed entries to us by **20 April 2020**. The winners of this month's puzzles will be published in the May 2020 issue, along with the solutions.

Email: [chemistryworld@rsc.org](mailto:chemistryworld@rsc.org)

Name .....

Address .....

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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)).

### April 2020 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

	Vehicle (3)
	Curve in a building (4)
	Tree (5)
	Musical with voices (6)
	Infection of the small intestine that can lead to death if untreated (7)
	Marine biologist, conservationist, author of <i>Silent Spring</i> (6, 6)

**Cryptic**

- Across**
- 1 Get rid of speed around second roundabout (6)
  - 4 Smiled about artificial intelligence perfection (8)
  - 10 See 15 Across
  - 11 Get hint about contract (7)
  - 12 Polemic sent about best sample containers (8, 7)
  - 13 Skipping third chapter, son reads about my complexes (9)
  - 15, 10 Across Italian physicist all giving about oddly ignored musical (5, 7)
  - 16 Birds all tied up? (5)
  - 17 Leaving writing autographs again? (9)
  - 19 Reaction calculations altered iodine chemistries too (15)
  - 22 See 9 Down
  - 23 Leading English primer revised (7)
  - 24 Missing girl without pity? (8)
  - 25 Colour in cosmic ray once? (6)

- Down**
- 1 Digs around mixed set for abstracts (7)
  - 2 Scientist organises pool seating a lot (15)
  - 3 Europeans drain spas abroad (9)
  - 5 Collections perhaps a bad asset (9)
  - 6 Bangs timpani a little, creating anxiety? (5)
  - 7 Clarity in big lie till I turn extremely tipsy? (15)
  - 8 Surfaces mince is prepared on? (7)
  - 9, 22 Across I resent lie about final term physicist (4, 7)
  - 14 Rigs drama about the carnival (5, 4)
  - 15 Long distance sorted third triathlete's lethargy (5, 4)
  - 16 Oddly ignored film about shark in India? (7)
  - 18 Hormone left out of startling surprisingly (7)
  - 20 Channel some psychometric analysis (5)
  - 21 Leading musicians approving pop singles charts (4)

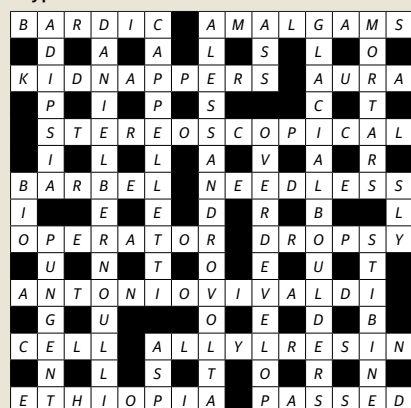
**Quick**

- Across**
- 1 Crystallographer (1893-1980), used x-rays to prove the tetrahedral bonding of carbon in molecules (6)
  - 4 Uninterrupted sequences (8)
  - 10 Transition metal with a single letter as its elemental symbol (7)
  - 11 Jotter (7)
  - 12 Rings like a bell (15)
  - 13 Nourishing constituents of food (9)
  - 15 Smallest constituent units of an element (5)
  - 16 First name of one of the joint winners of the 1935 Nobel prize in chemistry, for the discovery of artificial radioactivity (5)
  - 17 Lodging for travellers and their horses (9)
  - 19 Substances which are added to materials to slow or prevent the spread of fire (5, 10)
  - 22 Things that excite an organism to action (7)
  - 23 Physicist eponymised in the element that sits between hassium and darmstadtium in the periodic table (7)
  - 24 Cause untidiness (8)
  - 25 Microorganisms used in brewing and baking (6)

- Down**
- 1 Noble gas (7)
  - 2 Treatments of diseases by the application of radiation (15)
  - 3 Sulfonylurea diabetes medicine (9)
  - 5 Volumes containing several books (9)
  - 6 Sum (5)
  - 7 Organic compounds structurally related to naphthalene, examples include vitamin K and plumbagin (15)
  - 8 Monosaccharides (7)
  - 9 Middle Eastern country (4)
  - 14 Feldspathoid mineral, aluminosilicate of sodium and potassium (9)
  - 15 Anhydrous calcium sulfate (9)
  - 16 Penetrated, saturated (7)
  - 18 Makes certain (7)
  - 20 Wash out as in chromatography (5)
  - 21 Type of ant (4)

**March 2020 solutions and winners**

**Cryptic crossword**



**Quick crossword**



**Wordoku**

The nutritional chemist was Elsie WIDDOWSON

**Science scramble**

- 1 REM
- 2 Rome
- 3 Frome
- 4 Fermion
- 5 Enrico Fermi

**March winners**

- Science scramble**  
Evert Ditzel  
Howden, UK
- Wordoku**  
Karen Verrall  
Charfield, UK
- Cryptic crossword**  
Tim Branstons  
Nottingham, UK
- Quick crossword**  
Leslie Thelwall  
Reading, UK

**Answer to On the spot**  
The tray of magnesium reels should have been in the prep room until needed later in the lesson, as we can all imagine how pupils will be tempted to recreate this practical out of school. Importantly, this would also have prevented any sparks landing in the tray and causing the fire. Rather than adding water to a metal fire (some subject knowledge beyond what you are doing is essential), the teacher should instead use a fire blanket to put out the fire. Scenario and solution provided by CLEARFS.

**On the spot**



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