

### June 2021 wordoku

	S		R		B		T		A
			S	A	T			B	B
		T						M	E
	E				A	T		S	L
S			L		M			R	M
V		R	T					L	R
T						V			S
E			B	T	V				T
	V		A		S		B		V

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 chemist, featured in a recent issue of *Chemistry World*, whose work aims to improve the shelf life of vaccines.

### June 2021 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			
26						27							

### 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.

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 June 2021**. The winners of this month's puzzles will be published in the July 2021 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)).

### June 2021 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

<input type="text"/>	Expert (3)
<input type="text"/>	Run (4)
<input type="text"/>	Mother-of-pearl (5)
<input type="text"/>	Large birds recently reintroduced to the UK (6)
<input type="text"/>	Metalloid found in the mineral realgar (7)
<input type="text"/>	Containers (9)
<input type="text"/>	Determines (10)
<input type="text"/>	English polymath known for their laws of motion (3, 5, 6)

## Cryptic

- Across**
- Hoing some modified mix (10)
  - Part of Pa's apology quickly shortened (4)
  - Close-up of a little tarmac road (5)
  - Byron oddly happy about a difficult speech (9)
  - Real hike around Natal for type of metal (8, 5)
  - I fancy endless indolence (8)
  - See 19 Across
  - First tachycardic pulse ordered pauses (6)
  - 15 Across Biochemist foundered around ninja (8, 6)
  - Detector engineer touring Greece (6, 7)
  - Mock odd choices around first baronet's crest (9)
  - Arrange some red roses by return (5)
  - Rep leaves players' deposits (4)
  - Biased about soya tested? (10)

- Down**
- Plant some of them perfectly (4)
  - 20 Down Afraid alchemy upset a scientist (7, 7)
  - King's cellos playing oddly ignored tempo for percussion instruments (13)
  - Prepares best loin for 19 Across? (8)
  - Nerve agent scrambles brains but not to begin with (5)
  - Cleaned different deuterium source (7)
  - Branch of medicine to treat Charity's extreme personality? (10)
  - Sixth senses surprisingly noticing poser (13)
  - Scientific group initially fabricated cool alibi (10)
  - Urbane MP casted shadow (8)
  - That witch you're hiding? Edgy! (7)
  - See 2 Down
  - A little chic holiday garment (5)
  - Very dry in the Kalahari desert! (4)

## Quick

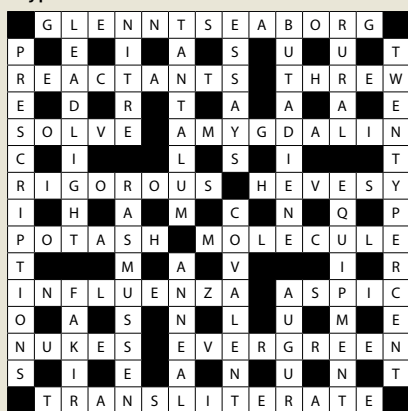
- Across**
- Synthetic element (10)
  - South African minor lake (4)
  - Permit (5)
  - Macromolecules containing RNA and associated proteins (9)
  - Psychoanalytical tool using ink blots (9, 4)
  - Furnace used for the calcination of calcium carbonate (4, 4)
  - \_\_\_\_\_ Swirls, English quantum physicist and former president of the Mathematical Association (6)
  - Secret (6)
  - Common organic functional group (8)
  - $\beta$ -lactam antibiotic (13)
  - Birthplace of Nobel prize-winning chemist Fritz Pregl (9)
  - \_\_\_\_\_ Joliot-Curie, Nobel prize-winning scientist and politician (5)
  - Bias (4)
  - In the UK, describing someone who lives above the Watford Gap (10)

## Down

- \_\_\_\_\_ acetate, once used as a sweetener in wines (though toxic) (4)
- Old name for tungsten (7)
- American biochemist who isolated thyroxine (6, 7)
- Desert lynxes (8)
- Dark central part of a sunspot (5)
- See 23 Down
- Voracious (10)
- Mineral found in meteorites and on Disko Island, Greenland (13)
- Neuroglia (5, 5)
- Another name for the burning bush that can catch fire in hot weather due to its volatile oils (3, 5)
- Gelatinous case containing a dose of medicine (7)
- Yellow cotton cloth (7)
- Region of New Zealand (5)
- 23, 7 Down Law relating the attenuation of light to the properties of the substance through which it is travelling (4-7)

## May 2021 solutions and winners

## Cryptic crossword



## Quick crossword



## Wordoku

The Italian materials scientist was Raffaella BUONSANTI.

## Science scramble

- Car
- Race
- React
- Cremate
- Jane Marcet

## May winners

**Science scramble**  
Ian Reid  
London, UK

**Wordoku**  
Sue Blake  
Congleton, UK

**Cryptic crossword**  
Amanda Heath  
Chertsey, UK

**Quick crossword**  
Cathy Brookes  
Ellesmere Port, UK

**Answer to On the spot**  
In older electronics, diodes based on selenium rather than silicon were used to convert alternating current into direct current. These rectifiers can emit selenium-containing fumes particularly under short-circuit or overcurrent conditions. Turn off the radio and check for short circuits, defective supply decoupling capacitors or other things that can cause excessive current to flow through the rectifiers. You may need to change the rectifier after such an event. Valved radios are high voltage electronics, take great care and remember the 'SIDE' mnemonic: Switch off, isolate from supply, Dump any charge and Earth the circuit in that order before you start the repair work. If in doubt, do not attempt such work.  
Mark Foreman works in the nuclear chemistry and industrial materials recycling section at Chalmers University of Technology, Sweden

## On the spot

