

### August 2020 wordoku

				I					
		H					T	D	
			F	T		S		I	
	D	E		S	L		I		
I									S
	W		T	E		D	H		
D		I		L	F				
E	H					F			
				H					

D
E
F
H
I
L
S
T
W

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 name of an American chemist known for their work to improve science education in Mississippi.

### August 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						
26						27								
28											29			

### 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 August 2020**. The winners of this month's puzzles will be published in the September 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)).

### August 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

Unite (4)

Cut of meat (5)

Expulsion (8)

Denial (9)

Discoverer of artificial radioactivity (5, 6-5)

**Cryptic**

- Across**
- 22 Across Jailers shuffle cards for pill developer (4, 8)
  - Once shy mob creates hexagonal structures (10)
  - Maybe I'm no usual mineral (9)
  - Idea Glenda has a little under par? (5)
  - Not even Germans including pH charts (6)
  - Physicist we bring east on arrangement (8)
  - Chemist robs inert boron blend (6, 8)
  - Eco gurus acidic about Italian Nobel literature laureate (6, 8)
  - See 1 Across
  - Some Strava target's personification? (6)
  - Prepared leading lowland peat for showy part of flower (5)
  - I lied about coca compound (5, 4)
  - Containing iron yet left around a beach (10)
  - See 25 Down

**Down**

- Electrifying horses? (8)
- Top brass developing harbour? No love, that's nonsense! (7)
- Oddly avoid low-browed instrument (4)
- Right away, ensure to proceed (5)
- Ultrasonic bath perhaps evading licence? (8, 6)
- Modified megaton generator (7)
- Toboggan kill it's heard (6)
- Miracles hardly surprising buckyball chemist (7, 7)
- No charge initially for reasons easily explained (4)
- Boast about x-ray crystallographer by the sound of it? (4)
- Oddly inane pride about butterflies (8)
- Finer tiara providing some resistance (7)
- Indicate chutney contains vegetable extract (7)
- Acid in salad I pickle? (6)
- Twenty? Result! (5)
- 25, 29 Across Try underground for lab kit? (4, 4)

**Quick**

- Across**
- 3 Across Scottish science writer and polymath who an University of Oxford college is named after (4, 10)
  - See 1 Across
  - Compounds that contain the  $AsO_4^{3-}$  ion (9)
  - Egyptian city built on the site of the ancient city of Thebes (5)
  - Unbound (6)
  - :-) for example (8)
  - Types of eicosanoids (14)
  - Oversights (14)
  - Eating and drinking establishments (often unlicensed) (3, 5)
  - See 4 Down
  - Frighten (5)
  - Peerless (9)
  - Semiconductor device (10)
  - Elisha \_\_\_\_\_, American inventor of an elevator safety device (4)

**Down**

- Latin phrase meaning 'through my fault' (3, 5)
- Italian rice dish (7)
- 22 Across Physicist who worked with Lise Meitner on nuclear fission (4, 6)
- Town in Surrey, famous for its derby, and after which a mineral is named (5)
- Hypochondriac (14)
- Dictionary (7)
- Knight \_\_\_\_\_, like one of the heroes of the Round Table (6)
- "The answer is at either end of this clue" (8, 6)
- Fever (4)
- Insects that secrete formic acid, 'formic' coming from the Latin word for the insect, forma (4)
- Bitumens (8)
- Canadian falls (7)
- Examine (7)
- Water channel (6)
- Subtract (5)
- Knowledge (4)

**July 2020 solutions and winners**

**Cryptic crossword**

D	O	W	N	C	A	S	T	F	O	R	C	E	S
M	A	H	H	P	P	R	R	I					
I	N	A	M	O	R	A	T	A	T	R	I	A	L
T	L	P		R	C	I	P	V					
R	U	S	T	S	P	R	I	N	C	I	P	L	E
I													
M	A	R	I	E	C	U	R	I	E	Z	I	N	C
E	E	Y	N	E	S	N	A						
N	O	D	E	A	S	T	R	O	L	O	G	E	R
D	U	B											
E	X	C	L	U	S	I	O	N	R	E	P	R	O
L	T	T											
E	V	I	T	A	C	U	R	R	I	C	U	L	A
E	O	N											
V	A	N	D	E	R	H	Y	O	S	C	I	N	E

**Quick crossword**

R	O	S	A	L	I	N	D	B	A	Y	E	U	X
H	C	O	Y	D	E	N	E						
A	C	I	D	V	A	L	U	E	R	A	D	O	N
M	F	E											
P	H	I	A	L	N	O	R	W	A	Y	R	A	T
H													
O	B	J	E	C	T	I	V	E	S	R	H	E	A
R	E	K	N	R	F	I	N						
H	A	T	E	I	T	I	N	E	R	A	N	T	S
Y	E	A											
N	O	N	A	G	O	N	A	L	N	U	J	O	L
C	G	O											
H	A	I	K	U	C	O	B	A	L	A	M	I	N
U	N	T											
S	T	E	R	I	C	C	Y	A	N	O	S	I	S

**Wordoku**

The chemist associated with fullerene research was Luis ECHEGOYEN.

**July winners**

Science scramble  
Michelle Bucknell  
Bonita Springs, US

**Science scramble**

- Toy
- Tory
- Theory
- Motherly
- Lothar Meyer

**Wordoku**

Hazel Hunter  
London, UK

**Cryptic crossword**

Tat Tsang  
Oxford, UK

**Quick crossword**

Karen Verral  
Charfield, UK

Retreat from the area and raise an alarm. Anyone who has been exposed to the fumes should be taken to a fresh air area. First aiders should keep a close eye on their breathing as the inhalation of fumes can cause swelling of airways and there can be a delay to the onset of symptoms. Staff exposed to fumes should be checked by medical personnel and warned that symptoms can be delayed by up to 48 hours. If they develop breathing difficulties they must seek medical assistance. The Fire Rescue Service will need to assess the situation and make the scene safe, but they will not remove chemical waste. A specialist waste contractor will need to deal with this.

Scenario and solution provided by CLEAFSS

**On the spot**

