

### June 2020 wordoku

						A		
					Y	B	R	S
		R		S	B			
		S			R		E	K
	R		M		K		S	
K	B		S			M		
			K	M		R		
R	Y	E	O					
		O						

A
B
E
K
M
O
R
S
Y

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 an official scientific adviser to the UK government.

### June 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									30					

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

### June 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

1  Beverage (3)

2  Value (4)

3  Irritate (5)

4  Goal (6)

5  Big risk (5, 6)

6  Former prime minister and chemistry graduate (8, 8)

**Cryptic**

- Across**
- 1, 4 Across Physicist develops better anilines (6, 8)
  - 4 See 1 Across
  - 10 Less said about salicylic acid describing some other compounds? (9)
  - 11 Biochemist in sermon oddball delivered (5)
  - 12 Hemp pioneer turns to bomb maker (11)
  - 14 Sounds grateful for pitch (3)
  - 15 Provoke with smoke (7)
  - 17 Beetle in mollusc Arabs reverse? (6)
  - 19 Some vicars pray solemnly for flowers (6)
  - 21, 22 Down Chemist threw lanterns around (7, 6)
  - 23 Regularly reveals fish (3)
  - 24 Nags priests about encroachment (11)
  - 26 Titles held by Vietnam estates? (5)
  - 27 Perhaps owe toil to pharmacologist (4, 5)
  - 29 Ignoring initial advice, heard Tony composing dirge (8)
  - 30 Play around at helm (6)

- Down**
- 1, 20 Down Soldier ordered a botanic hormone (8, 7)
  - 2 Pompous Colonel Bob limped a little (5)
  - 3 Oddly ready for light (3)
  - 5 A bit of bitcoin comes with the wages (7)
  - 6 Exercises with seasonal sailors by the sound of it (11)
  - 7 Merchants modified man of speed (5, 4)
  - 8 Lowest points of plastic drains? (6)
  - 9 The French keen about this compound (6)
  - 13 Unbiased about a patron's inn (11)
  - 16 Employ endless rock to produce plastic? (9)
  - 18 Surprisingly without the Spanish, I struggled with American pharmacist (8)
  - 20 See 1 Down
  - 21 Odd pair wait around for deer (6)
  - 22 See 21 Across
  - 25 Perfect in a little side alley (5)
  - 28 Oddly ignored illegal pasture (3)

**Quick**

- Across**
- 1 Metamorphic rock (6)
  - 4 Relic (8)
  - 10 Symbol denoting 'and' (9)
  - 11 Wear away (5)
  - 12 Relating to the study of the earth and its environments (11)
  - 14 Neither (3)
  - 15 With D- and L-forms in equal proportion (7)
  - 17 British pioneer of antiseptic surgery (6)
  - 19, 5 Down Species comprising one carbon atom bonded to three hydrogen atoms (6, 7)
  - 21 Damper (7)
  - 23 Twitch (3)
  - 24 First human to journey into space (4, 7)
  - 26 Ancient region of Turkey (5)
  - 27 Congenital absence of teeth (9)
  - 29 Discoverer of the rubber vulcanisation process (8)
  - 30 Represent (6)

- Down**
- 1 Disease affecting balance in cattle (8)
  - 2 Pachyderm (5)
  - 3, 13 Down Cornish chemist whose assistant was Michael Faraday (3, 7, 4)
  - 5 See 19 Across
  - 6 Infinite (11)
  - 7 Ornamentation (9)
  - 8 See 22 Down
  - 9 Unit of astronomical length (6)
  - 13 See 3 Down
  - 16 Gradual increase in loudness of music (9)
  - 18 Nickname for a British prime minister who studied x-ray crystallography at the University of Oxford (4, 4)
  - 20 Cypriot city (7)
  - 21 Type of nuclear reactor named after the alloy used for cladding (6)
  - 22, 8 Down Theoretical framework that potentially unifies gravity and particle physics (6, 6)
  - 25 Fraction (5)
  - 28 SI unit that has a Greek letter as its symbol (3)

**May 2020 solutions and winners**

**Cryptic crossword**

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

**Quick crossword**

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

**Wordoku**

The scientific adviser was Walter RICCIARDI

**Science scramble**

- 1 Cal
- 2 Call
- 3 Cavell
- 4 Lovelace
- 5 James Lovelock

**May winners**

- Science scramble**  
Imogen Howard  
Sandbach, UK
- Wordoku**  
Eadaoin Tyrrell  
Knocknacarra, Ireland
- Cryptic crossword**  
James Hallett  
Oxford, UK
- Quick crossword**  
Dylan Lynch  
Clonsilla, Ireland

Scenario and solution provided by CLEAPSS

This is a good reminder that we must consider whether it is safe to leave an experiment midway through. Thiocyanates can release sulfur dioxide when they come into contact with acid. Because of this, it is important that precautions are taken to ensure reactions can be quenched when necessary, and that they are carried out in a well-ventilated lab or fume cupboard. Otherwise you can end up with a very smelly lab. In this scenario, the lab and all adjoining rooms should be evacuated, if possible, and windows and doors should be opened - but only if safe to do so. Remember the human nose can detect sulfur dioxide at very low levels, so the smell will remain for a long time!

**Answer to On the spot**

**On the spot**

