

September 2020 wordoku

		U					P	
	S	A						U
				T	M	N		
		N		M		I		
E		S			P	A		
A								
				S	E		M	I
S							T	
U	T		P	A				

A
E
I
M
N
P
S
T
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 name of a chemical element.

September 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 September 2020**. The winners of this month's puzzles will be published in the October 2020 issue, along with the solutions.

Email: 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).

September 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

- Rested on chair (3)
- Headgear (4)
- Converses (5)
- Plant polysaccharide (6)
- Professional awards (8)
- Personalities (10)
- Inventor of nylon (7, 9)

Cryptic

- Across**
- See 20 Down
 - Left out and blue around river? (6)
 - Engineer a primarily uniform, even thoroughfare? (6)
 - Surprisingly savour extremely foul tastes? (8)
 - Objections about lots in camp (10)
 - Crash diet? Maybe spring! (4)
 - Leaving A & E, goalie quit dinner on arrangement for something cold (6, 8)
 - Antidepressants somehow impart senility (14)
 - Margaret gets rid of a rat broadcasting microorganism (4)
 - Can treating leprosy lead to a sleepy condition? (10)
 - IT batty about initially organising a lot of data (8)
 - Co-ed emaciated but swelling inside? (6)
 - Bird trapped in grape trellis (6)
 - Sean's boy sorted the food (8)

- Down**
- Half olives to reveal cavities? (7)
 - Manage to oddly ignore arguing (3)
 - 4, 8 Down Chemist composer cross about lone diner abroad (9, 7)
 - Noble chief fending off section (7)
 - Senior clergy a little rude answering (5)
 - Medication meeting is on maybe (11)
 - See 4 Down
 - Gauge puerile TV about first two monsters (11)
 - Holy treatment of groin? No, just a nosy branch of medicine (9)
 - Twisted teen made a small company solvent (7)
 - Sort of stripey sulfides (7)
 - Guy follows direction to photo pioneer (7)
 - 20, 1 Across Prize winner played tuba reel alone (5, 8)
 - Colour a bit of the bird yellow (3)

Quick

- Across**
- Unit of computer storage (10^{24} bits) with the same symbol as ytterbium (8)
 - Seraglios (6)
 - South American outer garment (6)
 - Reduce (8)
 - Nobel prize-winning discoverer of deuterium (6, 4)
 - Zero (4)
 - Lawrence Livermore National Laboratory radiochemist, co-discoverer of five superheavy elements (4, 10)
 - Butterfly and moth scientists (14)
 - Fungus that can cause plant disease (4)
 - Boot named after a duke (10)
 - Element discovered by Marguerite Perey in 1939 (8)
 - Greek founder of geometry (6)
 - Winter sportsmen and women (6)
 - Podiums (8)

- Down**
- Order of dragonflies and damselflies (7)
 - Principal psychoactive component of cannabis (abbrev) (3)
 - Carnage (9)
 - Bubalus mindorensis* (7)
 - 8 Down English physicist whose work established the concept of the atomic number (5, 7)
 - Recalling past experiences (11)
 - See 6 Down
 - Supremacy (11)
 - Indigence (9)
 - French naturalist whose theories of evolution preceded Darwin's (7)
 - Combination of monomers (7)
 - Element named after the Norse god of thunder (7)
 - Small dams (5)
 - Vehicle (3)

August 2020 solutions and winners

Cryptic crossword

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

Quick crossword

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

Wordoku

The Mississippi chemist and proponent of science education was Johnnie-Marie WHITFIELD.

Science scramble

- Join
- Joint
- Ejection
- Rejection
- Irène Joliot-Curie

August winners

- Science scramble**
Andrea Chlebkova
Brighton & Hove, UK
- Wordoku**
Andrew Jupp
Birmingham, UK
- Cryptic crossword**
Mike Howlett
Wirral, UK
- Quick crossword**
B R D Easter
Downham Market, UK

Answer to On the spot
Due to the coronavirus situation, some practical work may be moved to other areas of a school. Classrooms won't have the same level of safety precautions as a laboratory, for example fire blankets, extinguishers or first aid equipment. There may also be extra hazards like carpets and paperwork. Teachers will need to take extra precautions to minimise the risk of accidents, and to ensure they are prepared to deal with any potential issues. For more information on safely carrying out practicals in non-lab environments refer to CLEAPSS guide GL352: bit.ly/3jgYkKW Scenario and solution provided by CLEAPSS

On the spot



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