

November 2019 wordoku

			S				K	
				A	T	M		H
						I		T
		E		D	K			
	K	I				H	E	
		T	I	S		D		
K		M						
T		A	K	M				
	S				A			

A
D
E
H
I
K
M
S
T

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 into the name of a biochemical metabolite found in plants and microorganisms.

November 2019 word grid

C	Al	O
B	Re	N
I	Ra	Ti

Prize entry: Using each element symbol in the grid only once, combine them together to make a single word of 13 letters.

Word.....

Just for fun: Construct as many other words as you can using a minimum of three symbols, and each symbol only once.

6 words: OK, 9 words: Good, 12+ words: Excellent

November 2019 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		

November 2019 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

Entry form

There are four prize puzzles on this page: crossword (cryptic answers only); wordoku; science scramble; and word grid. For each puzzle, a winner will be selected from all the correct entries received and awarded a £25 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 either post or email this page with your completed entries to us by **20 November 2019**. The winners of this month's puzzles will be published in the December 2019 issue, along with the solutions.

Chemistry World puzzles, Royal Society of Chemistry, Thomas Graham House, Science Park, Milton Road, Cambridge, CB4 0WF, UK
Email: chemistryworld@rsc.org

Name

Address

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).

1	Consume (3)
2	Direction (4)
3	Moisten during cooking (5)
4	Lightweight fabric (7)
5	Electrical storage devices (9)
6	Theoretical physicist (6, 8)

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Cryptic (prize entry)

- Across**
- Ready gun for rooster (4)
 - Lacking tungsten, merely fashioned newer flask (10)
 - Left out, girls drive around this green (9)
 - Little harmony concealing the composer (5)
 - With a little ruthenium, Fred transmuted thorium into another element (13)
 - The French chew over this African antelope (6)
 - More culpable right after I smashed titanium luge (8)
 - Mums' aria rearranged into metal? (8)
 - Seen surrounding chromium filter (6)
 - Never-ending halibut seen around nine? (13)
 - Juvenile gnu only returning when heartless lion has gone (5)
 - Answers wild son's spree? (9)
 - Paramount or just gone off horses? (10)
 - Magnates oddly ignoring the workers (4)

Down

- Slip or just say no to more drinks? (5, 5)
- Cart around a little weight (5)
- Reduce fear about extreme railway (6)
- Cover dun horse somehow (8)
- X or maybe XXX? (14)
- Drug Irish oddly playing Boney M (9)
- Double dose of transition metal for antipodean owl (4)
- Perhaps disregard law re composer chemist (3, 6, 5)
- Royalty presses new coin lacking obverse initially (10)
- Awfully nice mum to make crumble? (9)
- Wrote surprisingly rude oath (8)
- Lab kit - first batch unsent - last consignment missing (6)
- Some hobos onto something particular (5)
- You endlessly alter pH for this developer (4)

Quick (just for fun)

Across

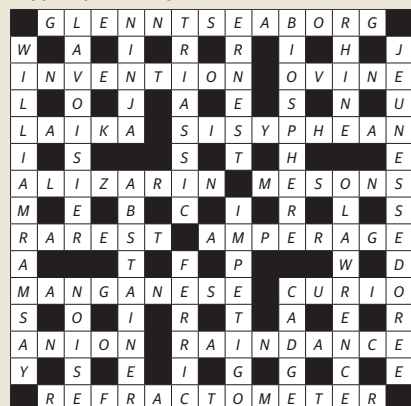
- Wise men (4)
- Beta blocker used to treat performance anxiety (amongst other things) (10)
- German philosopher, author of *Thus Spoke Zarathustra* (9)
- Types of clouds (5)
- Hard-working (13)
- Large stable block of the Earth's crust (6)
- Reject (4, 4)
- Communications satellite operator (8)
- 20 Down Book by 4 Down on the effects of pesticides on wildlife (6, 6)
- Preliminary (13)
- Special talent (from Yiddish) (5)
- Skinks (9)
- Oxbow lakes (Australian) (10)
- Hard coarse-grained stone (6)

Down

- Containing a single ring of atoms (10)
- Surname of the first American to orbit the Earth and first name of an American chemist eponymised in element 106 (5)
- _____ Carson, American biologist and conservationist (1907-1964) (6)
- Plucking implement (8)
- Lack of agreement (14)
- Carbonate sedimentary rock (9)
- Cut of meat (4)
- Country of birth of Jaroslav Heyrovsky, inventor of the polarographic method of analysis (14)
- Something issued at intervals (10)
- Medically remedial (eg against a toxin) (9)
- Moon of Jupiter (8)
- See 19 Across
- Relating to the periodic rise and fall of the sea due to the moon's gravitational pull (5)
- UK bird charity (abbrev) (4)
- Narrow fissure (4)

October 2019 solutions and winners

Cryptic (prize entry)



Quick (just for fun)



Wordoku

The name of the chemist was Eugenia KUMACHEVA

Word grid

The nine-symbol word was PROBABILISTIC

Science scramble

- Hat
- Heat
- Lathe
- Ethanol
- Kathleen Lonsdale

January winners

Science scramble
D J Jones
Wolverhampton, UK

Wordoku
Omofolawe Otun
Reading, UK

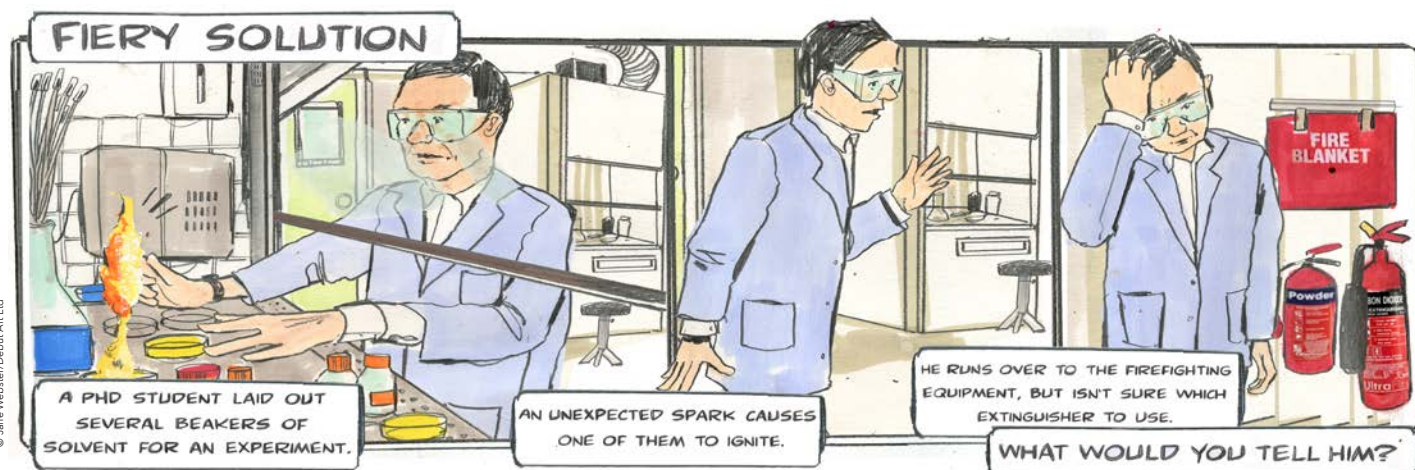
Word grid
Timothy Weakley
Dundee, UK

Crossword
Arnab Bhattacharya
Mumbai, India

Charles Harrison is a safety adviser at a UK university.

First, he should raise the alarm. Only then should he consider fighting the fire. For a solvent fire, a fire blanket or powder extinguisher is generally best. However, the student needs to ask himself if the is comfortable fighting the fire. Fires are scary and dangerous, and nothing can prepare someone for being face to face with the real thing. The student should only attempt to put out a fire if he is comfortable doing so and has been properly trained. Raising the alarm is by far the most important first step whichever path he chooses to take.

On the spot



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