May 2019 wordoku

|  |  |  | $M$ | $H$ |  |  |  | $I$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | M |  |  |  |  |  | $N$ |  |
|  |  |  |  | $R$ |  |  |  | $E$ |
| $E$ |  |  |  | $M$ | $U$ |  | $S$ |  |
| $T$ |  | $M$ | I |  |  |  |  | $U$ |
|  |  |  | $H$ |  | $R$ |  |  |  |
|  |  |  |  |  |  |  |  | $H$ |
|  | $U$ |  | $T$ |  |  |  |  | $N$ |
| $R$ |  | $H$ |  | $S$ |  | $I$ | $M$ |  |


| $E$ |
| :---: |
| $H$ |
| I |
| $M$ |
| $N$ |
| $R$ |
| $S$ |
| $T$ |
| $U$ |

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 into the name of a transition metal.

May 2019 word grid

| $S$ | $O$ | $B$ |
| :---: | :---: | :---: |
| $N$ | $E r$ | $O$ |
| At | $V$ | 1 |

Prize entry: Using each element symbol in the grid only once, combine them together to make a single word of 11 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

## 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 May 2019. The winners of this month's puzzles will be published in the June 2019 issue, along with the solutions.

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

## Name

Address $\qquad$

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).

## May 2019 crossword



## May 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

## 1

2

3

4

5

6

Insane (3)

Measure (4)

Day in Paris (5)

Element discovered by 6 (6)

Membrane enclosing the heart (11)

Pioneers of radiochemistry
$(6,3,5,5)$

## Cryptic (prize entry)

## Across

1 Gene hops around chemical weapon (8)
5 See 15 Down
10 Weight of cornet you played? Not likely! $(4,5)$
11 Tour around last market for fish (5)
12 Neurotoxin in prepared raisins is lost (5)
13 Insect an amazingly mean flier $(4,5)$
14 Dogged physiologist? $(4,6)$
17 Bug right inside gem (4)
19 Particle originally made understandably outstanding news (4)
20 Strangely anchored to geometric solid (10)
22 Odd moaner mixes 21 Down for another compound (9)
24 Author makes edits to fool with leading writer (5)
26 I box around first Rangers' stadium (5)
27 Astrophysicist not entirely shedding tons (9)
28 Dyes in Cleo's inscription (6)
29 Shows gifts (8)

## Quick (just for fun)

## Across

1 See 23 Down
5 Bobble (3-3)
10 Foreigner (9)
11 Incrimination by false evidence (3-2)
12 Japanese physicist who shared the Nobel prize for the discovery of electron tunnelling (5)
13 Ancient Egyptian queen (9)
14 Fruit (10)
1720 fluid ounces (4)
19 Doubtful (4)
20 Position held by Adam Brownsell for this magazine (10)
22 Fictional intelligent horse described in Jonathan Swift's Gulliver's Travels (9)
24 Disney character (5)
26 Item of cutlery (5)
27 Photograph made on an iron plate coated with a light-sensitive film (9)
28 British biochemist who won the chemistry Nobel prize twice (6)
29 Anticoagulant (8)

## Down

1 Vegetables $(5,10)$
2 Additional (5)
3 Precious metal (8)
4 Radioactive noble gas (5)
6 Alma mater of crystallographer Dorothy Hodgkin (6)
7 Piece of lab glassware (or plastic) used for cultures, named after a German bacteriologist $(5,4)$
8 Diabolical (15)
9 Commercial fishing technique (8)
15 Movement of molecules from a region of higher concentration to a region of lower concentration (9)
16 Increase in wavelength (8)
18 Compromise (5-3)
21 Satellite of Saturn (6)
23, 1 Across, 25 Down Second woman to win a physics Nobel prize $(5,8,5)$
25 See 23 Down

## April 2019 solutions and winners



Quick (just for fun)


## Wordoku

The chemist associated with superheavy elements was Ken GREGORICH

## Word grid

The nine-symbol word was PERFECTIONISTS

Science scramble
1 End
2 Mend
3 Mendel
4 Mile End
5 Dmitri Mendeleev

## April winners

Science scramble
Nigel Cooper, Huddersfield, UK

## Wordoku

Glyn Thomas, Newport, UK
Word grid
Robin Price,
Cowes, UK
Crossword
Neil Adams,
Taunton, UK

łods әчł иО оł дәмsuヲ

## On the spot



