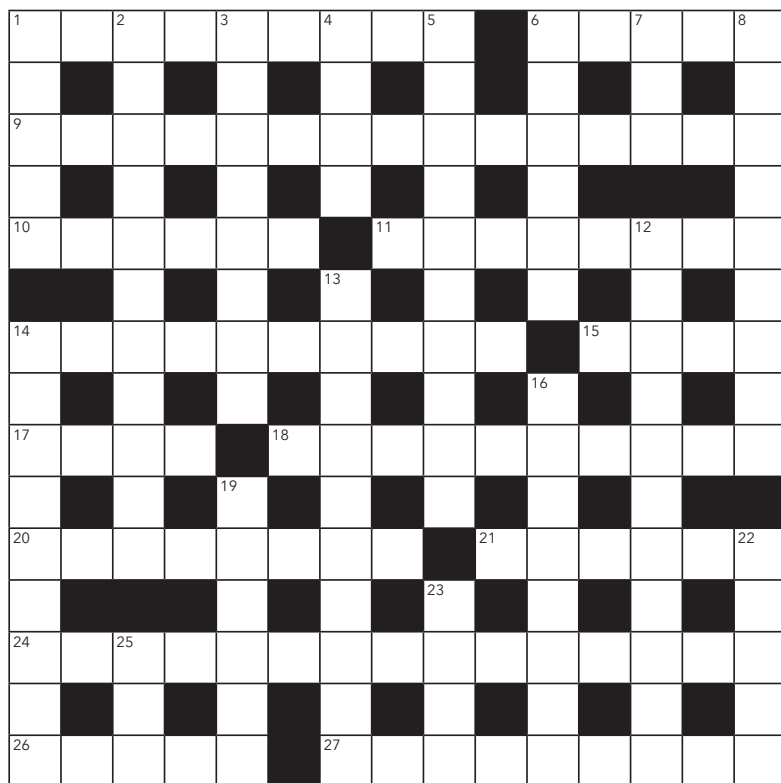
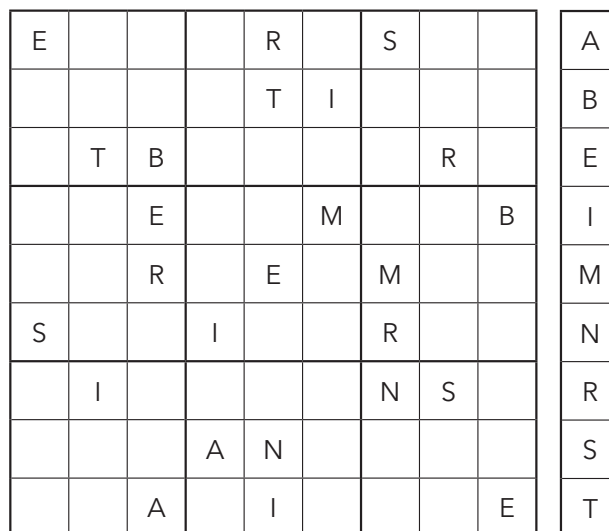


### March 2022 crossword



### March 2022 wordoku



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 an isoquinoline alkaloid found in several plants, including the barberry, Oregon grape and Californian poppy.

#### Cryptic

##### Across

- 1 Email chat about this mineral (9)
- 6 Laureate took right mixture (5)
- 9 Joey helps priest turn to chemist (6, 9)
- 10 Distant but sometimes just hidden in the sofa? (6)
- 11 Look after talent Dot left out after a shake-up (6, 2)
- 14 Oddly odious telling about killing machine (10)
- 15 Not entirely fantastic wine (4)
- 17 A little action saves charges (4)
- 18 Heading off supersonic Concorde initially upset the astronomer (10)
- 20 Terry ran around wandering (8)
- 21 Cross about a hen escaping first compound (6)
- 24 Laggards restyled conspirator's art (15)
- 26 Russian writer ultimately writing about York (5)
- 27 Odd acids converted thiols into bad breath (9)

##### Down

- 1 Key prime minister? (5)
- 2 Physicist transforms entire smile (4, 7)
- 3 LONDON, ROME etc (8)
- 4 Trolls leading Indian politicians (4)
- 5 Exits scene about lives (10)
- 6 Fancy times following King's Head? Meant to be! (6)
- 7 Every now and again socials can be crude (3)
- 8 Tycoons I kiss stirring hormones? (9)
- 12 Engineer accredits extremely outrageous lab equipment (11)
- 13 Nuclear physicist develops sort of itch (4, 6)
- 14 Slob follows the money to become experimental subject (6, 3)
- 16 Bury mimic but still communicate? (8)
- 19 Green brewery finally creates spirit (6)
- 22 Helps some fleas escape (5)
- 23 Small bottle sounds awful (4)
- 25 It's said 60 minutes belong to us (3)

#### Quick

##### Across

- 1 See 15 Across
- 6 Digit (5)
- 9 English chemist and discoverer of iridium and osmium (8, 7)
- 10 Breathe out (6)
- 11 See 15 Across
- 14 Invention (10)
- 15, 11, 1 Across German chemist eponymised in the world's first analytical chemistry journal (4, 8, 9)
- 17 Mouthpiece component of woodwind instruments (4)
- 18 Lower in rank (10)
- 20 Earliest period of the stone age (8)
- 21 Disentangle (6)
- 24 At once (15)
- 26 Subatomic particle composed of a quark and an antiquark (5)
- 27 Birth (9)

##### Down

- 1 Flare (5)
- 2 British nurse who was shot by firing squad during the first world war amid international outcry (5, 6)
- 3 What the E stands for in EDTA (8)
- 4 The most common element on earth by mass (4)
- 5 Australian soprano (10)
- 6 Polyphenolic substance that can add an astringent taste to red wine and tea (6)
- 7 Location of the Statue of Liberty (abbrev) (3)
- 8 Substances added to water for ablution (4, 5)
- 12 One of the pen names of the Danish author Karen Blixen (4, 7)
- 13 Imaginary substance debunked by Antoine Lavoisier (10)
- 14 Element named after a Californian city (9)
- 16 Like a cobweb (8)
- 19 Proportional deformation unit seen in the equation for Young's modulus (6)
- 22 Herb (5)
- 23 Against (4)
- 25 Distress signal (3)

## March 2022 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 |  | Not out (2)  |
| 2 |  | Writing fluid (3)                                    |
| 3 |  | Monarch (4)  |
| 4 |  | Sticking together (6)                                |
| 5 |  | Shelving (7)   |
| 6 |  | Breaking rocks by hydraulic means (8)                |
| 7 |  | Biochemist who worked on sequencing techniques (9,6) |

### Quick quiz:

- What connects these elements: francium, radium, polonium, protactinium?
- What connects these elements (apart from being metals): gold, lead, mercury, potassium, silver, sodium, tin, tungsten
- What connects these elements: cerium, helium, neptunium, palladium, plutonium, selenium, uranium
- Which two elements are named after US states?
- Thou art a soul in bliss, but I am bound; Upon a wheel of fire, that mine own tears; Do scald like molten \_\_\_\_\_.  
*Which element completes this passage from Shakespeare's King Lear?*

**Solutions:** 1. They were all discovered or co-discovered by female scientists (Marguerite Perey, Marie Curie, Marie Curie, Lise Meitner respectively) 2. Their elemental symbols do not start with the same letter that their name does 3. All named after heavenly bodies 4. Californium, Tennessee 5. Lead

## 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.

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 email a scan or photograph of this page with your completed entries to us by **20 March 2022**. The winners of this month's puzzles will be published in the April 2022 issue, along with the solutions.

Email: [chemistryworld@rsc.org](mailto: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](http://www.chemistryworld.com/privacy)).

## March 2022 Word grid

Use the element symbols from the panel on the right to complete the word grid below.

	O	Te		
U		S		O
S			C	S
C	O			S

F	He
I	N
Pr	Pu
Si	Ta
Ti	Y

## February 2022 solutions and winners

### Cryptic

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

### Quick

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

### Wordoku

The 2D material was BOROPHANE

### Science scramble

- Am
- Aim
- Lima
- Animal
- Laminae
- Kamala Sohonie

### February winners

Science scramble  
Charlotte Levy  
Yealton, UK

Wordoku  
Stan Carter  
Brigg, UK

Cryptic crossword  
Iain Melville  
Preston, UK

Quick crossword  
Jennifer Moor  
Wirral, UK