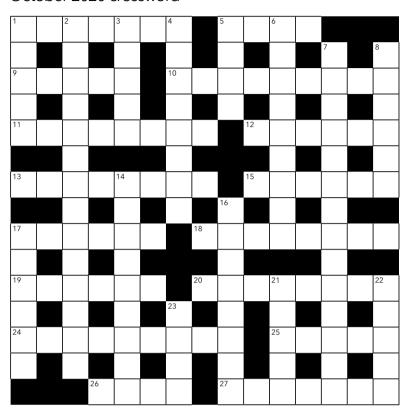
## October 2020 wordoku

	Е	S		N					Е
							Т		I
Р			Т			R	0		М
		М	Р						Ν
R	0						Е	М	0
					0	Ν			Р
	Т	R			Ν			Р	R
	I								S
				R		S	М		Т

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 bicyclic alkaloid.

## October 2020 crossword



# **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.

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

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).

## October 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

Lip (3)
Strait-laced (4)
Numbers such as 3, 5, 7, 11, 13 (5)
Paint for bare surfaces (6)
Circumference (9)
Discoverer of francium (10, 5)

## Cryptic

#### Across

- 1,8 Down Chemical engineer and Nobel laureate ran land forces on arrangement (7, 6)
- Without cake, ragamuffin turns to jelly! (4)
- Letters about endlessly aiding the country (5)
- 10 Is Romania upsetting Anatolia? (4, 5)
- 11 Beginning redesigning Ruhr Zoo top exhibit (4, 4)
- 12 Skipping second lunch, buy more scrambled egg (6)
- 13 Also came around to location of fossil fuel (4, 4)
- 15 Free to relax (6)
- 17 Go round Manx reactor (6)
- 18 Oddly scatty ideas about enzyme (8)
- 19 Ordered endlessly sterile measures (6)
- 20 See 26 Across
- 24 I will even turn phobia into a love of nature (9)
- 25 A drag returning to the Italian lake (5)
- 26, 1 Down, 20 Across With zero effort, Timothy upsets German biochemist (4.5.8)
- 27, 5 Down Privacy I could not even arrange in this compound (7, 4)

#### Down

- 1 See 26 Across
- Physicist dares strongman to 2 change (6, 8)
- First Honda cars developed a racket (5)
- Paula's extremely soft about lab kit (8)
- 5 See 27 Across
- Maybe Mama rents munitions (9)
- Nuclear physicist raved about his anorak (6, 8)
- See 1 Across
- 14 Cat honest about the bird? (9)
- 16 I dream about heartless flop creating hazard down the coal mine (8)
- 17 I mixed album in the city (6)
- 21 Surprisingly regal composer (5)
- 22 Old money found in beef ranch (5)
- 23 Dalton a little high? (4)

TEACHING LABORATORY.

### Quick

#### Across

- Undeciphered Minoan writing system (6, 1)
- 5, 9 Across Crystallographer known for their work on hydrogen bonding (4, 5)
- See 5 Across
- 10 Tungsten ore named after 27 Across (9)
- 11 See 18 Across
- 12 North Atlantic islands of Portugal (6)
- 13 German polymath who conceived differential and integral calculus around the same time as Isaac Newton (8)
- 15 Spiked frozen water (6)
- \_\_ Nightshade, source of atropine and other toxins (6)
- 18, 11 Across Crucible support for use while heating (eg with a Bunsen burner) (8, 8)
- \_ Jar, an old form of capacitor or condenser (6)
- 20 Elevation (8)
- 24 Not belonging to anybody (9)
- 25 Pictures or symbols used on computer screens to represent commands (5)
- 26 Birthplace (then called Kristiania) of chemist Odd Hassel (4)
- 27 Swedish-German chemist who made several discoveries for which others were given the credit (7)

#### Down

- 1 Hungarian composer and pianist (5)
- Aerobic processes that fix an important nutrient in soil (14)
- $C_{19}H_{14}O_{3}$ , pH indicator and dye intermediate (5)
- 4, 23 Down -273.15°C (8, 4)
- 5, 17 Down English chemist, physicist and meteorologist (4, 6)
- German philosopher and author of Thus Spoke Zarathustra (9)
- Guncotton (14)
- Supposed creature that lurks in the waters of a Scottish loch (6)
- 14 Legal term (abbrev) for abandonment of a suit (5, 4)
- 16 Treatment for patients with kidney failure, also a biochemical technique for separating substances in solution (8)
- 17 See 5 Down
- 21 Original nationality of Robert Boyle (5)
- 22 Follow (5)
- 23 See 4 Down

# September 2020 solutions and winners

#### Cryptic crossword L A U R E A T E D A N U B E F L A V O U R S E N C O M P L A I N T S N D | | | | Q | U | | | D | N | | | T | R | O | G | E | N E Н М 0 Υ N N $N \mid A \mid R \mid C \mid O$ L E P S 0 1 A B I T 0 E D E M G OY B E

### Quick crossword Y O T T A B I T $H \mid A \mid R \mid E \mid M \mid S$ M I N I M | H | A | R | O | L | D | U | R | E | Y U Ε L E P I D O P T E R I S T S 0 0 D N S M U T W E L L I N G T O N Ε Υ $N \mid C \mid I \mid U \mid M$ C Ε R O S

### Wordoku

The chemical element was NEPTUNIUM

### Science scramble

1 Sat

2 Hats

3 Chats

4 Starch

5 Charters

6 Characters

7 Wallace Carothers

# September winners

Science scramble Cathal Connolly Fuerty, Ireland

Wordoku

Christopher McMahon Little Chesterford, UK

Cryptic crossword Tony Lees Cockermouth, UK

Quick crossword Aldo Guiducci Woodcote, UK

We apologise for errors affecting 16 Across (cryptic) and 14 Across (quick) in last month's crosswords. Hopefully these didn't throw you off too much!

Scenario and solution provided by CLEAPSS

hazard. A bung should never be placed in the top of this type of reflux apparatus. The heat should be turned off and the fume cupboard sash closed while the apparatus cools. Heating a sealed system can cause pressure to build up, creating a potentially explosive

Answer to On the spot On the spot A DEMONSTRATOR NOTICES SOMETHING ISN'T RIGHT WITH ONE STUDENT'S REFLUX SET UP A GROUP OF UNDERGRADUATES WHAT SHOULD THEY DO? IS WORKING IN A