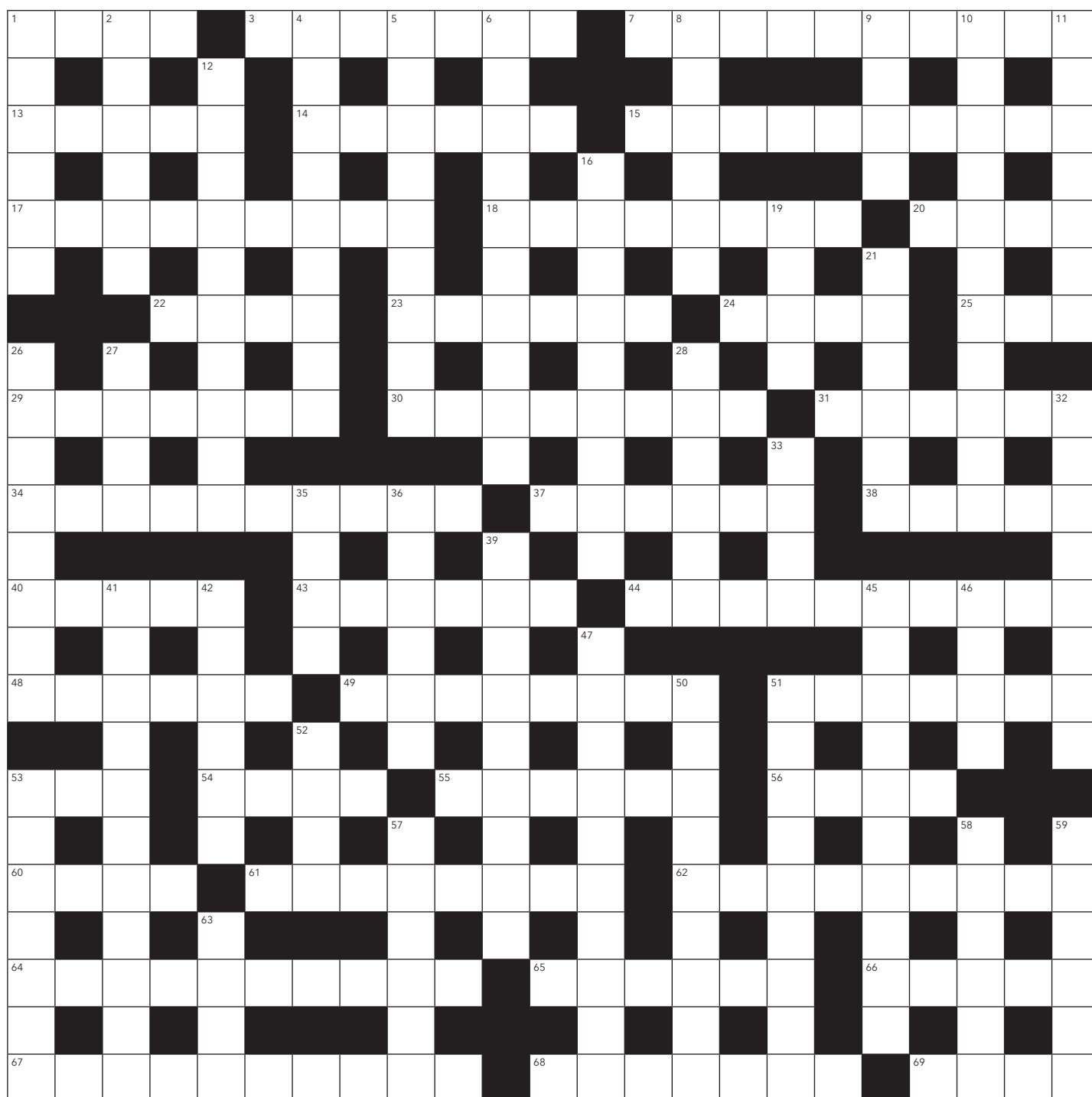


December 2018 Jumbo CrOsSWORD



Entry form

This month there are only two prize puzzles: the cryptic elements crossword and the quick regular crossword. For each crossword, a winner will be selected from all the correct entries received. Each winner will receive a hamper just in time for Christmas.

You can enter both of the prize draws, but each entrant is only eligible to win one puzzle prize.

Please enter your details and either post or email this page with your completed entries to us by **16 December 2018**. The winners of this month's crosswords will be published in the January 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).

Prize entry 1: Cryptic elements crossword

Each crossword square can have one or two letters, which must be letters of an element symbol, or the letters D or T (for deuterium or tritium). For example, Dalton could be written D(A)lTON.

- | Across | Down |
|--|---|
| 1 Dope saps energy from inspirational lady (6) | 1 Biochemist alters skin pH with oxygen (7) |
| 3 Killers in final approaches following donkey after donkey (9) | 2 Choices even for putrid oinks? (7) |
| 7 What Creole rascal converted the polymer pioneer? (7, 9) | 4 Terminal for vehicles underwater or just electric? (10) |
| 13 Brew 2 down concoction without the brimstone! (6) | 5 On arrangement uses conics following one after the other (10) |
| 14, 66 Across Chef sulks about bran equipment in the lab (7, 6) | 6 It's true - love Finn mixing tonic (10) |
| 15 Reminted coin inched in compound (12) | 8 Mountain climbers' tumbling tailspins? (9) |
| 17 Oddly said inner cities create untruths (13) | 9 Order a cooker by the sound of it (7) |
| 18 Hero opines about something above us (10) | 10 See 42 Down |
| 20 Amphibians went south surprisingly (5) | 11 Yes, resins transformed by expulsion (9) |
| 22 Gosh, I changed the game (5) | 12 Deputy refunds her if upset (12) |
| 23 Lacking initial training, toil over giant engraving (8) | 16 Tendency to slope off? (11) |
| 24 Rebinding including decoration (5) | 19 He's cross about oddly needed compounds (7) |
| 25 Strangely forbids odd trees (4) | 21 New bitcoin Charlie left for vitamin (6) |
| 29 American soldier leaves obligation for presentation (8) | 26 Majority agreement on sun's disturbance of 46 down (9) |
| 30 Ed's notion about lunchtimes (9) | 27, 56 Across French Renaissance man redesigns Basil's palace (6, 6) |
| 31 First blend even pastry layer (8) | 28 Cop takes road around second apple tree (8) |
| 34 Chosen foetus developed this physiological capability (one of five) (5, 2, 5) | 32 I leave Yetis bitter about minerals (10) |
| 37 Right away, soccer pro orders drink (8) | 33 Odd duck turns to extinct bird (4) |
| 38 German chemist rents first Nissan abroad (6) | 35 Removes part of Proust - <i>sacre bleu!</i> (5) |
| 40 Prone after fracturing initially unaffected spine? (6) | 36 Occupants of such places are reportedly intense (9) |
| 43 Specify tales I put about (9) | 39 Theoretical physicist (and atomic spy) - sulk about such a fuss initially (5, 5) |
| 44 Medication in chamber pot I ordered (12, 1) | 41 Alter oars' positions - it's a measure of the strain! (8, 5) |
| 48 Birds fast and finally furious (6) | 42, 10 Down Florist went on about woodman hit with mechanical rule (7, 5, 3, 2, 6) |
| 49 Oddly Titus twisting tresses to check strength (6, 4) | 45 Biochemist prepares a raw French fig (5, 8) |
| 51 Some tin bits making a comeback in this mineral? (8) | 46 Some eye cells primarily consist of nothing extraordinarily special (5) |
| 53 Fool abandons Russian's remains (5) | 47 Mixed-up, copies escort seeing double (12) |
| 54 Old salt mixes nutrients (contains no nuts) (5) | 50 Some sensitivity about the cousins (10) |
| 55 Puzzle over UK's first declaration of ultimatum (6) | 51 Prepared worse supper for strong nations (11) |
| 56 See 27 down | 52 Strict about rents (5) |
| 60 A short time after the winner (6) | 53 Potato disease burst cases terribly (6, 4) |
| 61 Tom and Colin carved chair evenly out of a large block of stone (10) | 57 Medical facilities initially can't let in new inpatients, causing stress (7) |
| 62 I rush around chap initially praising Greek polymath (10) | 58 Chris right off odd tests about rocks (7) |
| 64 Orchestra pit plays first symphony - it's way over my head! (13) | 59 Not even Sasha sits around but helps (7) |
| 65 Novelist and physical chemist rearranges packs unevenly now (1, 1, 4) | 63 Assertive boy accepts some swearing initially (5) |
| 66 See 14 across | |
| 67 She's boney - it's disturbing the anabolisms! (12) | |
| 68 Supports corporal punishment or just a case of computer typography? (9) | |
| 69 Sue's right about addicts (5) | |

Prize entry 2: Quick crossword

This one is your regular type of crossword, no element symbols are needed.

- | Across | Down |
|---|--|
| 1 Bee noise (4) | 1 Plant disease (6) |
| 3, 65 Across Children's author and mycologist (7, 6) | 2 Dutch physicist after whom a spectral effect is named (6) |
| 7, 51 Across Laboratory weighing equipment (10, 7) | 4 People who make sure the law is adhered to (9) |
| 13, 31 Across, 66 Across French scientist awarded the 1935 chemistry Nobel prize in chemistry (5, 6-5) | 5 Biological classifier (9) |
| 14 Obsess (6) | 6 Translates (10) |
| 15 Found everywhere (10) | 8 See 35 Down |
| 17 Peruvian mountain named after an Inca emperor (9) | 9 Small part of a branch (4) |
| 18, 49 Across English chemist and x-ray crystallographer who contributed to the elucidation of DNA's structure (8, 8) | 10 Form of asbestos (11) |
| 20 Scandinavian (4) | 11 See 37 Across |
| 22 Lazy (4) | 12 Small indiscretion (10) |
| 23 Type of kumquat (6) | 16 Lack of correspondence in form on opposite sides of a plane for example (9) |
| 24, 40 Across, 56 Across American biochemist and first US professor of pharmacology (4, 5, 4) | 19 Noble gas (4) |
| 25 Tower in London (3) | 21 African country (6) |
| 29 African antelopes (7) | 26 Crepuscular bird, with a hint of its nocturnal habits in its name (8) |
| 30 Containing element 44 (8) | 27 Mineraloid, hydrated amorphous form of silica (4) |
| 31 See 13 Across | 28 Tower in Paris (6) |
| 34 Instrument for studying the sun (10) | 32 Iron Lady (8) |
| 37, 11 Down Soviet biologist and agronomist (1898-1976) (6, 7) | 33 Arab of high office (4) |
| 38 Public space for entertainment (5) | 35, 8 Down Supernova remnant in the constellation of Taurus (4, 6) |
| 40 See 24 Across | 36 Verse (6) |
| 43 Discrimination based on years (6) | 39 Antibiotic used for the treatment of tuberculosis (9) |
| 44 Type of sound used in imaging and cleaning (10) | 41 Streams of electrons observed in vacuum tubes (7, 4) |
| 48 Part of the eye (6) | 42 See 57 Down |
| 49 See 18 Across | 45 Dominant adult male gorilla (10) |
| 51 See 7 Across | 46 Zero (4) |
| 53 Basis of binary (3) | 47 CH ₃ for example (5, 5) |
| 54 Chelating agent (abbreviation) (4) | 50 Ten Ångstrom units (9) |
| 55 Type of fermion (6) | 51 Small restaurant (9) |
| 56 See 24 Across | 52 Infection of the eyelid (4) |
| 60 Vegetable symbolic of Wales (4) | 53 Aromatic compound C ₇ H ₈ (7) |
| 61 Photocopying (8) | 57, 42 Down German chemist after whom a laboratory burner was named (6, 6) |
| 62 Type of spectroscopy named after its German discoverer for which he was awarded the 1961 physics Nobel prize (9) | 58 Fundamental particles named from a passage in <i>Finnegan's Wake</i> by James Joyce (6) |
| 64 Optical isomer (10) | 59 Undergarments (6) |
| 65 See 3 Across | 63 Smallest component of an element (4) |
| 66 See 13 Across | |
| 67 Magnesium sulfate named after a natural spring in Surrey, England (5, 5) | |
| 68 Three-dimensional round objects (7) | |
| 69 Serpents (4) | |

November 2018 solutions and winners

Solutions to last month's puzzles and November's winners can be found on page 61.

