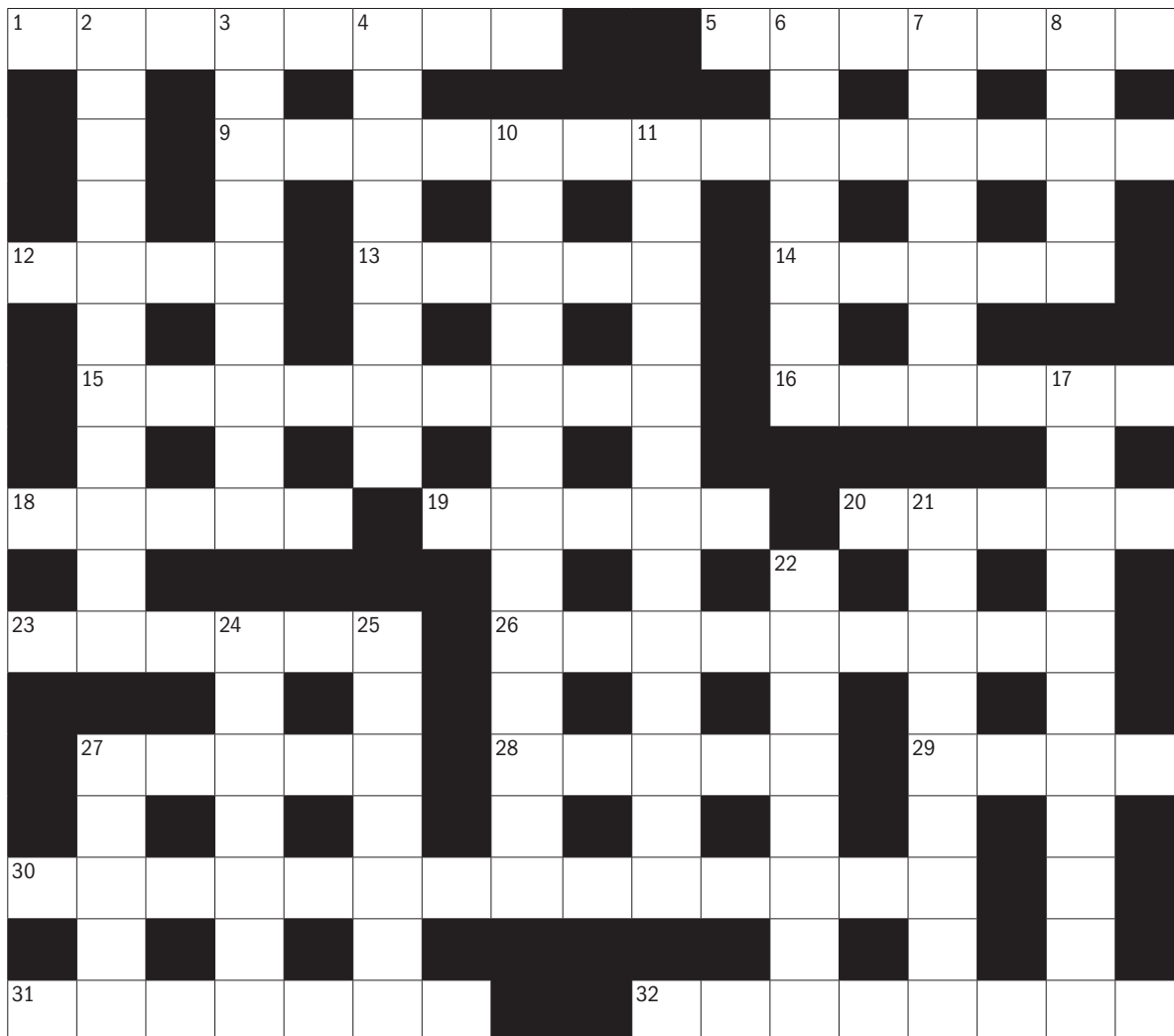


# A demon of a puzzle

In 1871 James Clerk Maxwell proposed a puzzle now known as “Maxwell’s Demon” in his book *Theory of Heat*. We celebrate its 150th anniversary in this thermodynamics-themed cryptic crossword compiled by **Ian Randall**



**Ian Randall** is a science writer based in Cambridge, UK. He likes to think he’s a bit **27 across** when it comes to wordplay, but by any reasonable **23 across**, he’s really just **32 across** the English language.

Answers will be published in the October issue of *Physics World*. Please note that this crossword is just for fun; there are no prizes.

**Across**

- 1** A limo cat, writhing, is concerned with the smallest matters (8)
- 5** Robotic prostheses created by bishop from charged integrated circuit with sulphur (7)
- 9** Trendy machismo, in a tizzy, has energetic focus (14)
- 12** A Copernican revolution? That’s one in the eye, archdeacon (4)
- 13** A-level physics comes in form that gives Saturn its place (5)
- 14** In taking the last of the Rolos, craving leads to rush of power (5)
- 15** Mr Astaire, doing the twist, blows at a high altitude (9)
- 16** TV’s O’Connor went around coral island to find origins of radiation (6)
- 18** Wrapped up man was Marie’s relationship to Ève and Irène (5)
- 19** Partial fan? British lady adores dear Einstein, initially (5)
- 20** Maxwell’s establishment part of lovemaking scandal (5)
- 23** Imperial rival encountered the head of Richard (6)
- 26** Stiff card is material for passing through grating (9)
- 27** Satyr, aimless, is skilled outside of the sciences (5)
- 28** Power supply ultimately charges keen jacuzzi yoga team the wrong way (5)
- 29** Student paper caught in vortex, amazingly (4)
- 30** Strongmen, ergo a distorted set of radiographs (14)
- 31** Saturn’s fourth visitor? SI unit gained when gambling palace

loses nothing (7)

- 32** Maltreats, sounds like the young lady is taking them to court, stupidly (8)

**Down**

- 2** Physical quantity locates ancient city in clement clime (11)
- 3** Old US measure of work is a newly formed gamer term (9)
- 4** Fossil-fuel preserver found in confused eco store (8)
- 6** Venerated, without origin, acquired charge (7)
- 7** Nice rum scrambles one type of code (7)
- 8** Ideal from Carnot is a penny-farthing (5)
- 10** Not the first law breaker? At the most, a healthy fiend (8,5)
- 11** Worshipping as a god has steamy action for getting rid of unwanted liquid (13)
- 17** From Tesla’s birth state, but later on? You, we hear, go to Prague football team with force (11)
- 21** Entropy always does this! Clothes before you iron them (9)
- 22** Ordered structures? Weep, heavenly bodies, as right becomes left (8)
- 24** League tables wrap can in trashy newspapers (7)
- 25** Sob, love, for short information? Low-temperature provider (7)
- 27** Keck greeting fractures a halo (5)