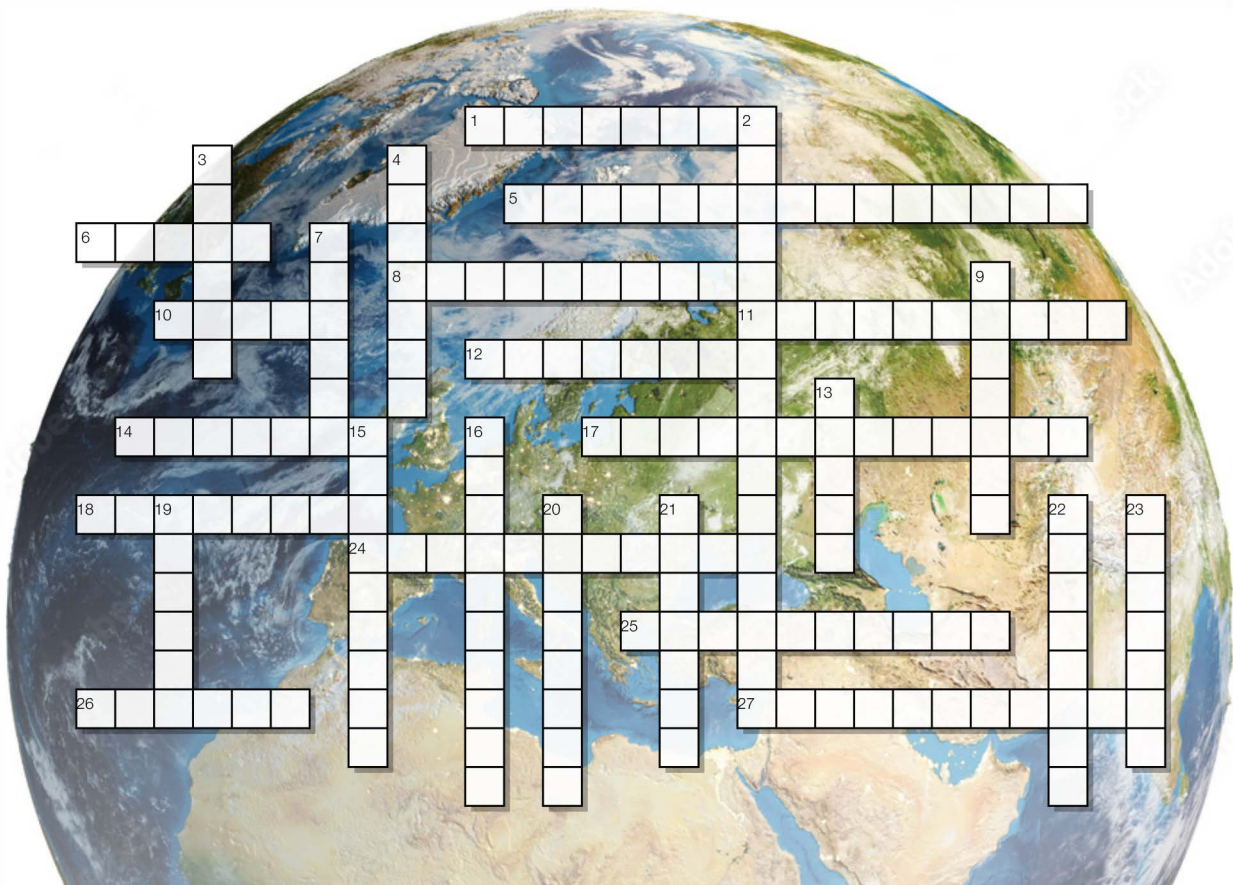


ISOTOPES



ACROSS

- 1 Parent of a classical radiogenic isotope system
 5 Isotope anomalies inherited from stars
 6 Process by which an unstable atomic nucleus loses energy
 8 Unreactive elements with useful isotopes
 10 The animal in charge of the pack
 11 Source of an object
 12 $\ln 2 / \lambda$
 14 Not religious
 17 Separates parents and daughters

18 Difference between two isotopes of an element

- 24 A state of balance
 25 Can be studied using $\delta^7\text{Li}$, $\delta^{26}\text{Mg}$, $^{87}\text{Sr}/^{86}\text{Sr}$...
 26 Tinder for geochemists
 27 Nobody seems keen to have this type of waste dumped near their town.

DOWN

- 2 Every isotope geochemist's favourite tool
 3 In the 2017 UK general election, Theresa May claimed to be strong and

4 Parent of platinum-group isotope system

- 7 Ionised gas
 9 Parent of a short-lived radiochronometer
 13 Stable isotopes of this element trace ocean pH
 15 Real or hypothetical (Isotopic) pool
 16 Daughter of a radioactive nuclide
 19 Can be studied using fission tracks, U-Th-He,
 20 Glows hot to ionise
 21 Isotope fractionation style
 22 Canonical distillation model
 23 Isotope system for rates of processes