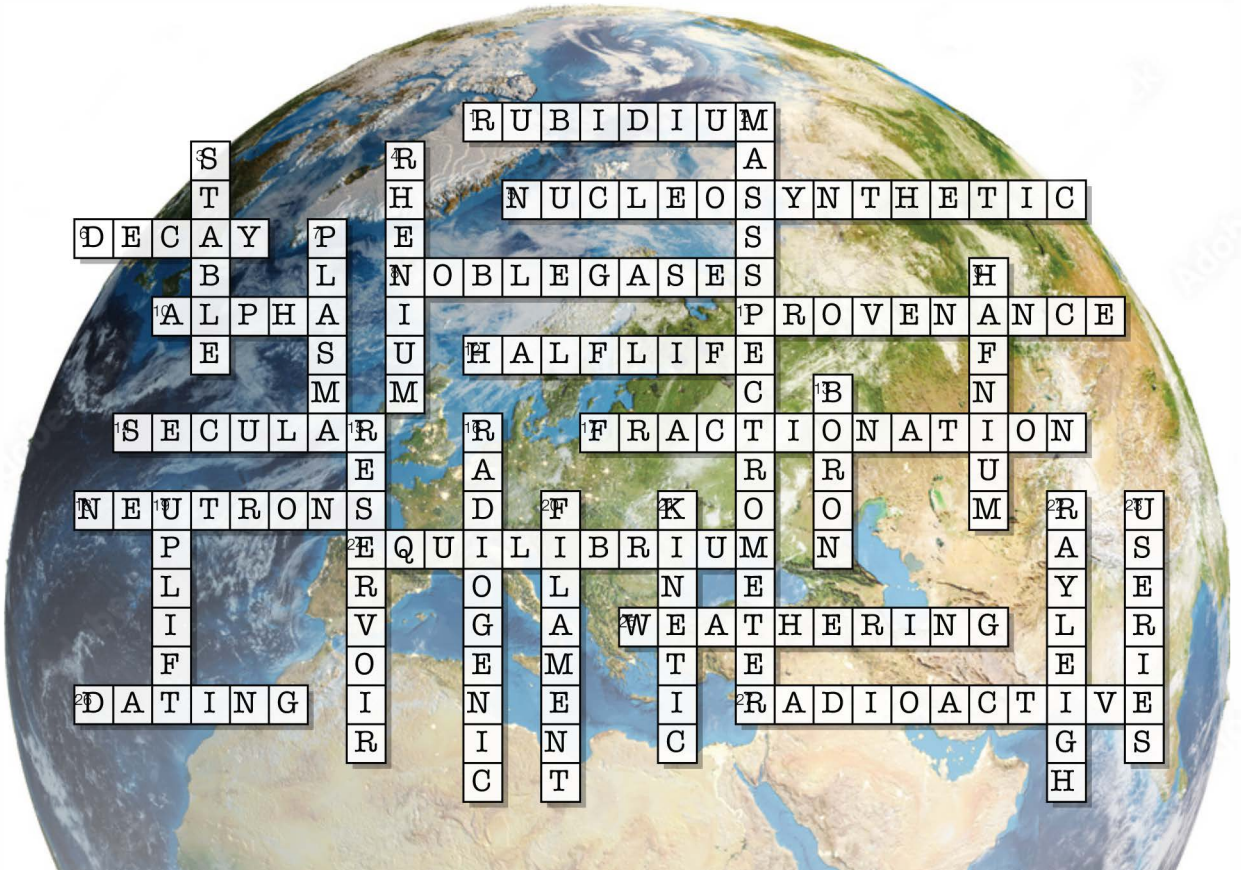


# ISOTOPES



## 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