Ytterbian isotopes



Education in Chemistry November 2018 rsc.li/2qcDGH3

Standfirst/lead paragraph in here

Foundation level activity (teacher answers)

Read the article 'The most important village in chemistry' (rsc.li/2qcDGH3). It mentions a number of elements that are associated with the town of Ytterby. Use the information in the table to work out the elements the data describes and the chemical symbols. Complete all the gaps in the table. The missing information is given in **bold**.

Element	Number of protons	Number of neutrons	Symbol
Yttrium	39	49	⁸⁸ ₃₉ Y
Erbium	68	94	¹⁶² ₆₈ Er
Gadolinium	64	92	¹⁵⁶ ₆₄ Gd
Dysprosium	66	96	¹⁶² ₆₆ D y
Ytterbium	70	98	¹⁶⁸ 70 Yb
Scandium	21	24	⁴⁵ ₂₁ Sc
Thulium	69	100	¹⁶⁹ ₆₉ Tm
Holmium	67	98	¹⁶⁵ ₆₇ Ho
Dysprosium	66	90	¹⁵⁶ ₆₆ Dy
Lutetium	71	104	¹⁷⁵ ₇₁ Lu
Gadolinium	64	90	¹⁵⁴ ₆₄ Gd
Ytterbium	70	106	¹⁷⁶ ₇₀ Yb
Terbium	65	94	¹⁵⁹ ₆₅ Tb
Erbium	68	99	¹⁶⁷ ₆₈ Er