

How do we use and refer to the delta values?

UNIT 3

Comparative terms

LIGHT vs. HEAVY SAMPLES

DEPLETED vs. ENRICHED SAMPLES

Comparative terms

LIGHT vs. HEAVY SAMPLES

LIGHTER sample contains more of the lighter isotope, **relative to** another sample.

HEAVIER samples contains more of the heavier isotope, **relative to** another sample.

DEPLETED vs. ENRICHED SAMPLES

LIGHT vs. HEAVY SAMPLES

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HEAVIER samples contains more of the heavier isotope, **relative to** another sample.

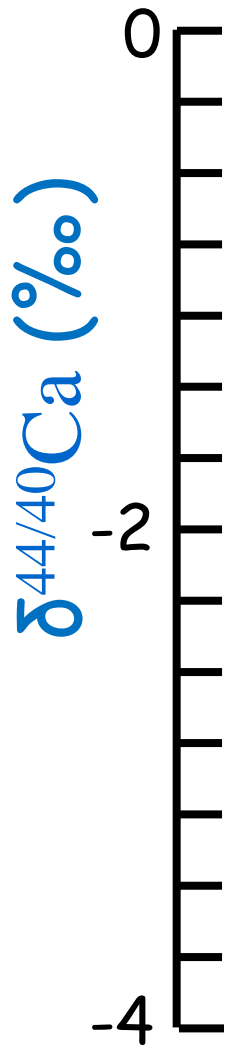
DEPLETED vs. ENRICHED SAMPLES

A sample "**DEPLETED**" **IN THE LIGHT ISOTOPE** contains less of the light isotope and more of the heavy isotope, **relative to** another sample.

A sample "**ENRICHED**" **IN THE LIGHT ISOTOPE** contains more of the light isotope and less of the heavy isotope, **relative to** another sample.

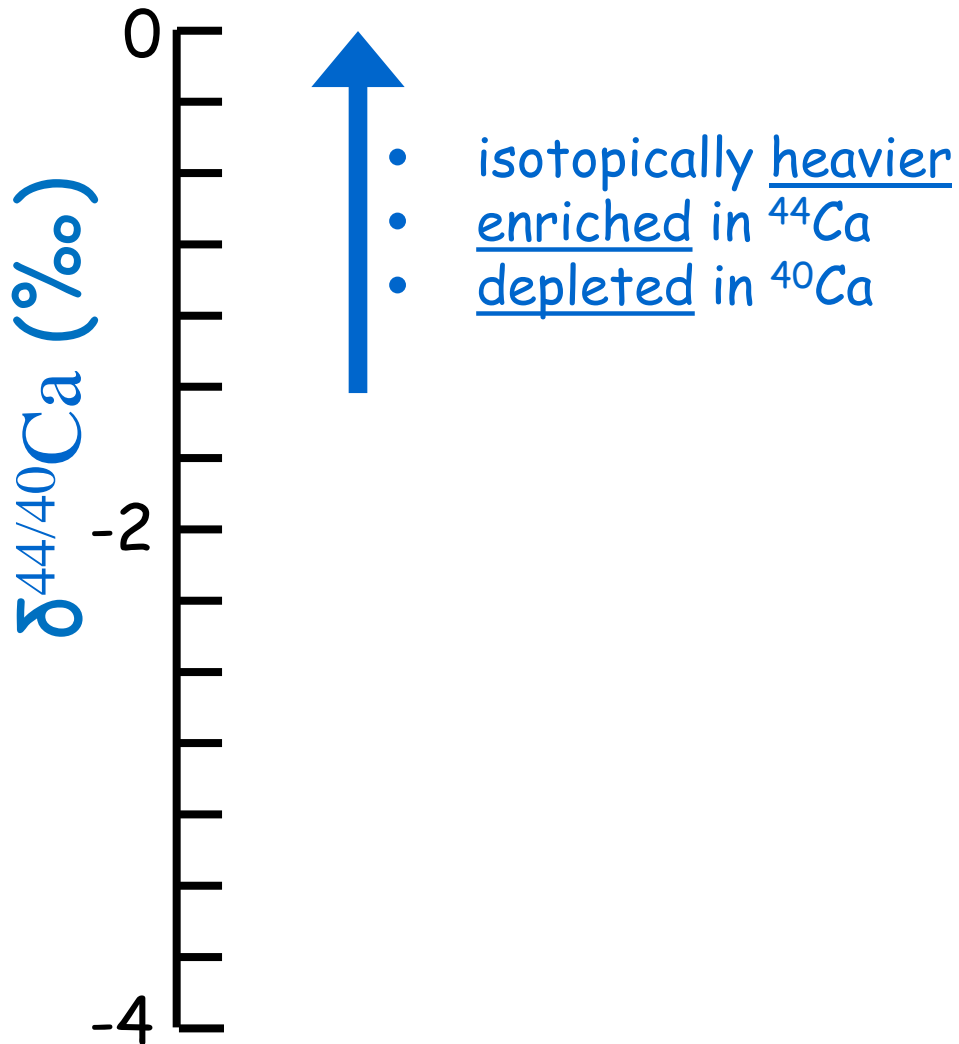
Example

Using $\delta^{44/40}\text{Ca}$ signature of precipitated CaCO_3 as an example:



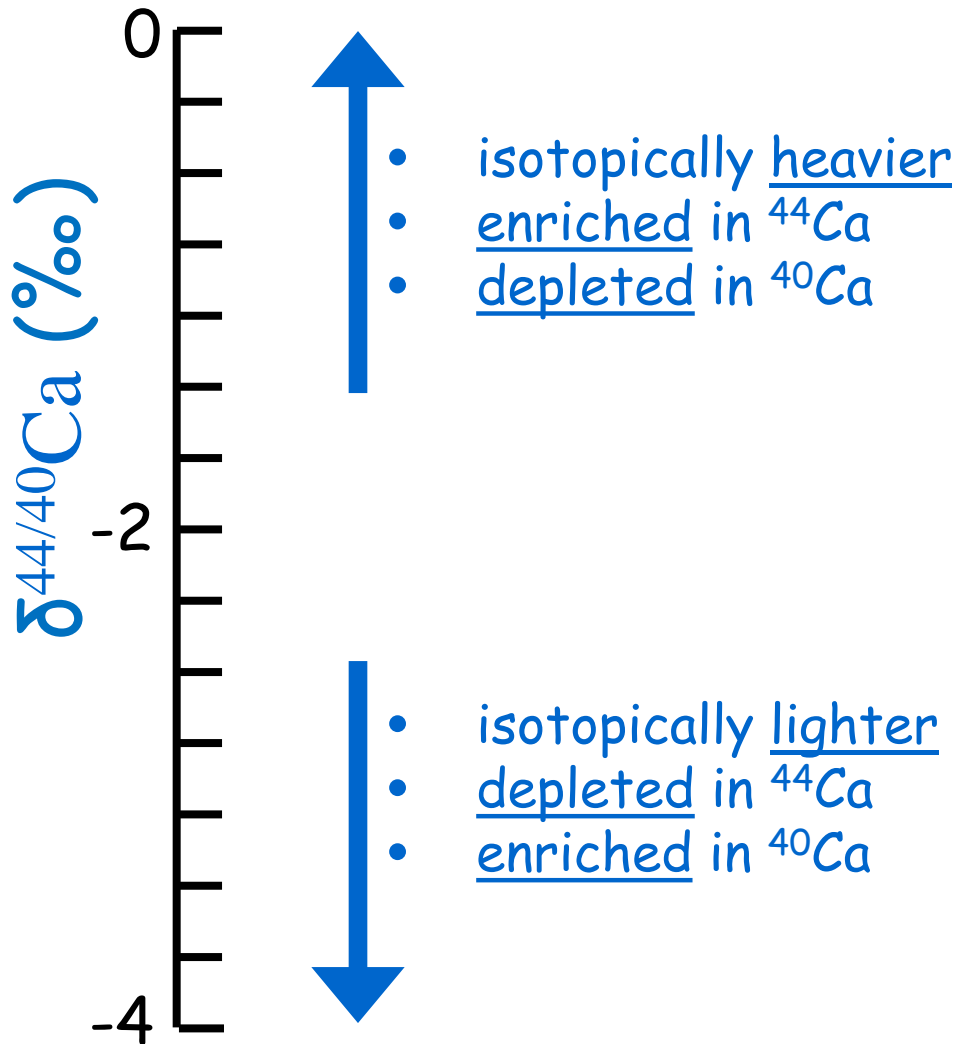
Example

Using $\delta^{44/40}\text{Ca}$ signature of precipitated CaCO_3 as an example:



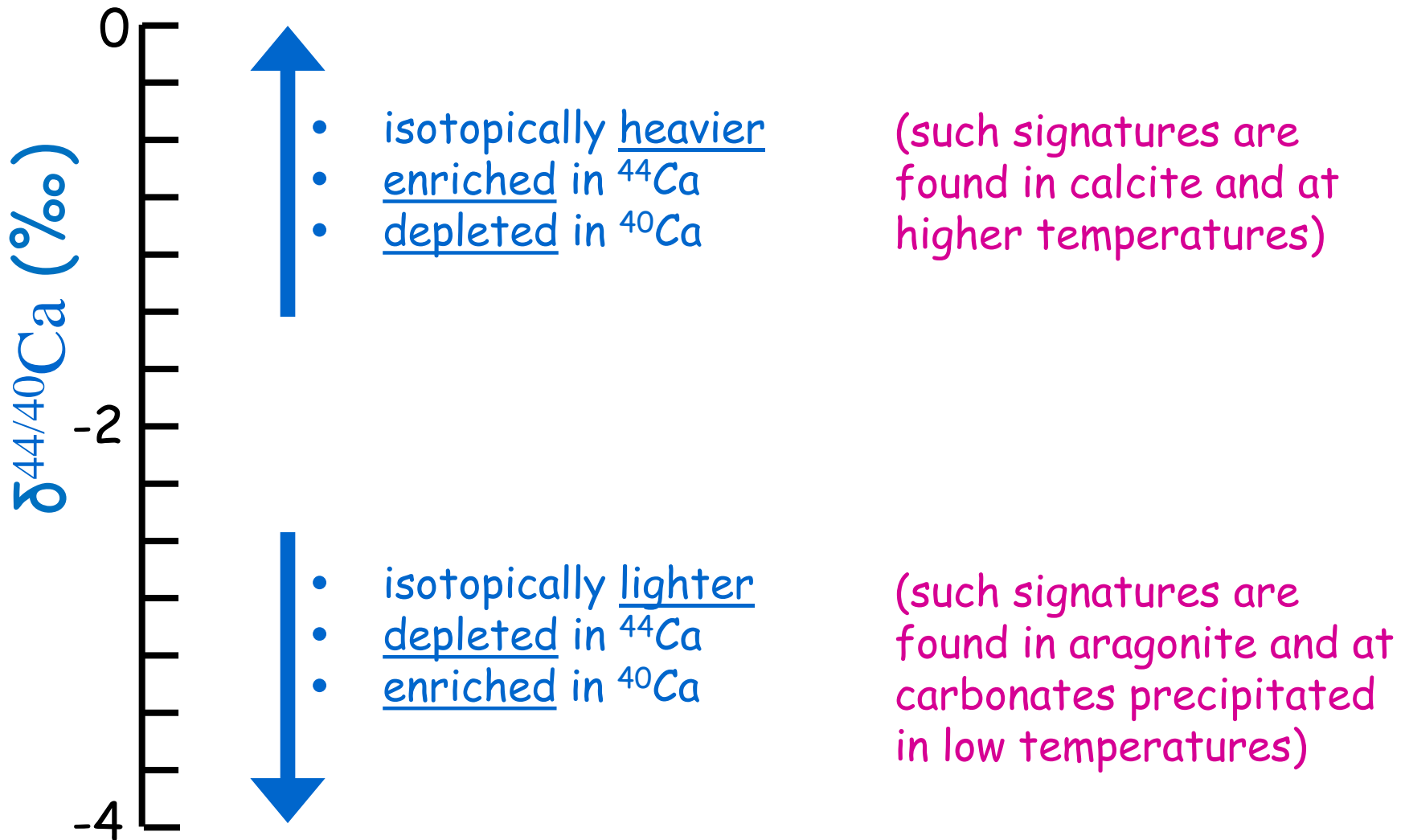
Example

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Using $\delta^{44/40}\text{Ca}$ signature of precipitated CaCO_3 as an example:



This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 643084