

Radioactive isotopes

1. Event
2. Number
3. Event
4. First Name
5. Animal
6. Noun
7. First Name
8. Noun

Radioactive isotopes

Changing the _____^{Event}_____ of _____^{Number}_____ in an atom does not change the overall charge of the atom.

However, changing the number of neutrons can affect the stability of the nucleus, in some cases causing the nucleus to decay, or break _____^{Event}_____. When a nucleus breaks apart, it gives off radiation that can be _____^{First name}_____. Isotopes that give off radiation are called radioactive _____^{Animal}_____.

Carbon-14 is a radioactive _____^{Noun}_____ that is found in all living things. Scientists know that the half-life, or the amount of time it takes for half of carbon-14 to decay, so they can calculate the age of an object by finding how much carbon-14 _____^{First name}_____ _____^{Noun}_____ the sample.