

Radioactive Isotopes

1. Animal
2. Proper Noun
3. Noun
4. Location
5. First Name
6. Noun
7. Adverb
8. Verb
9. Noun

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Changing the number of _____Animal_____ in an _____Proper noun_____ does not change the overall charge of the _____Noun_____. However, changing the number of _____Location_____ can affect of the _____First name_____ of the nucleus to _____Noun_____ or break apart. When a nucleus _____Adverb_____ apart, it _____Verb_____ off radiation that can be detected. Isotopes that give off radiation are called radioactive isotopes.

Carbon-14 is a radioactive isotope that is found in all living things. Scientists know the half-life, or the amount of time it takes for half of carbon-14 to _____Noun_____ so they can calculate the age of an object by finding how much carbon-14 remains in the sample. Other radioactive isotopes have medical uses, as shown in Figure 5.