

Chapter 10 Nuclear Chemistry

Section 10.2 Rates of Nuclear Decay**(pages 298–301)**

This section discusses half-lives and explains how nuclear decay can be used to estimate the age of objects.

Reading Strategy (page 298)

Identifying Details As you read, complete the concept map below to identify details about radiocarbon dating. For more information on this Reading Strategy, see the **Reading and Study Skills** in the **Skills and Reference Handbook** at the end of your textbook.

**Half-life (pages 299–300)**

1. A nuclear decay rate describes how fast nuclear changes take place in a radioactive substance.
2. Is the following sentence true or false? All radioisotopes decay at the same rate. false
3. Describe a half-life. A half-life is the time required for one half of a sample of a radioisotope to decay.
4. Circle the letter that describes a sample of a radioisotope after two half-lives.
 - a. One eighth of the original sample is unchanged.
 - b. One quarter of the original sample is unchanged.**
 - c. Half of the original sample is unchanged.
 - d. Three quarters of the original sample is unchanged.
5. Circle the letter of the correct answer. Iodine-131 has a half-life of 8.07 days. What fraction of a sample of iodine-131 is left unchanged after 16.14 days?

a. $\frac{1}{2}$	b. $\frac{1}{4}$
c. $\frac{1}{8}$	d. $\frac{1}{16}$
6. Is the following sentence true or false? Like chemical reaction rates, nuclear decay rates vary with the conditions of reaction.
false

Section 3 Rates Of Nuclear Decay Answers

J Dewey



Section 3 Rates Of Nuclear Decay Answers:

Section 3 Rates Of Nuclear Decay Answers Book Review: Unveiling the Magic of Language

In a digital era where connections and knowledge reign supreme, the enchanting power of language has been apparent than ever. Its ability to stir emotions, provoke thought, and instigate transformation is really remarkable. This extraordinary book, aptly titled "**Section 3 Rates Of Nuclear Decay Answers**," compiled by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound impact on our existence. Throughout this critique, we shall delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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