

Radioactive Dating**Warm-up Activity****Circle missing vocabulary.****Problem:** Read the passage. Then, provide the questions that follow.**Radioactive Dating**

Earth's rocks contain elements that release the element carbon-14 as they decay. This is called **radioactive dating**. The average age of a fossil can be determined using a technique called **radioactive dating**. This is done by measuring the amount of carbon-14 in the fossil. The amount of carbon-14 in a fossil is compared to the amount of carbon-14 in a sample of the same material. The difference between the two is the **age** of the fossil.

1. What is radioactive dating? _____
2. What is the age of? _____

Problem: The table below lists the half-lives of some radioactive elements. Use the table to answer the questions that follow.

Radioactive Elements	
Radioactive Element	Half-life
Carbon-14	5,730 years
Uranium-238	4,468 years
Plutonium-239	24,110 years
Polonium-210	138 days

1. What is the half-life of uranium-238? _____
2. Suppose a fossil contained one half as much carbon-14 as a sample of the same material. How old is the fossil? _____
3. Suppose a rock contained one fourth as much plutonium-239 as a sample of the same material. How old is the rock? _____
4. If 10 grams of carbon-14 are present today, how much will be left in 11,460 years? How much in 22,920 years? _____
5. If 10 grams of uranium-238 are present today, how much will be left in 8,936 years? _____

Pearson Education Radioactive Dating Answer Key

Lei Huang



Pearson Education Radioactive Dating Answer Key:

Pearson Education Radioactive Dating Answer Key: Bestsellers in 2023 The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous engrossing novels captivating the hearts of readers worldwide. Lets delve into the realm of bestselling books, exploring the captivating narratives that have charmed audiences this year. Pearson Education Radioactive Dating Answer Key : Colleen Hoover's "It Ends with Us" This touching tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover masterfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can triumph. Pearson Education Radioactive Dating Answer Key : Taylor Jenkins Reid's "The Seven Husbands of Evelyn Hugo" This captivating historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reid's captivating storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Pearson Education Radioactive Dating Answer Key : Delia Owens' "Where the Crawdads Sing" This evocative coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens spins a tale of resilience, survival, and the transformative power of nature, entrancing readers with its evocative prose and mesmerizing setting. These top-selling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of engaging stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a masterful and thrilling novel that will keep you speculating until the very end. The novel is a warning tale about the dangers of obsession and the power of evil.

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