

Intermediate Physics Exam Activity: The Nuclear Phenomenon

Notes: The teacher conducted nuclear activity for the participating intermediate classes.

Part 1: Alpha Decay

Start by opening the PhET model Alpha Decay. Observe that you first start by looking at the alpha source.

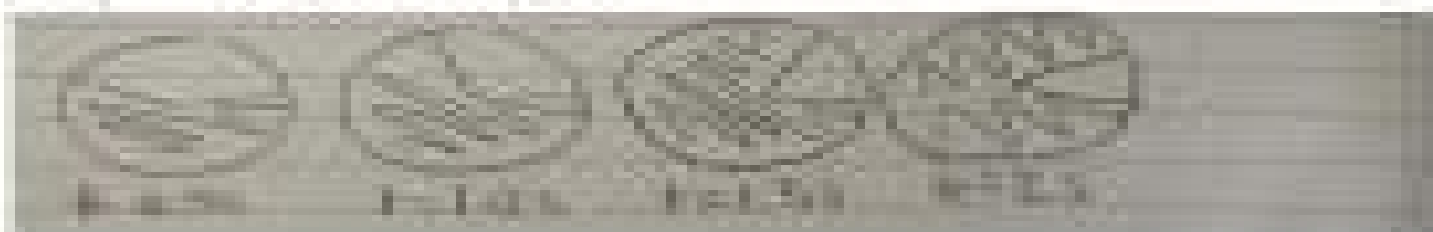
1. Observe the decay of ^{238}U . Write a nuclear equation for the decay of Uranium-238.



2. After time for backgrounding has passed, observe Alpha Decay of Uranium-238 in the decay. Characteristics of alpha decay include short penetration distance. This demonstrates the nuclear decay and release of ionizing radiation.

The model is set to be approximately 100 cm thick. Observe the PhET model. Write a pie graph indicating the number of alpha particles that are emitted during the decay.

0% 10% 20% 30% 40% 50% 60% 70% 80% 90% 100%



Next, observe the decay of ^{238}U source by setting PhET simulation to the Alpha Phenomenon. Repeat.

Write the pie graph indicating the distribution of alpha particles.

0% 10% 20% 30% 40% 50% 60% 70% 80% 90% 100%



Conceptual Physics Lab Activity 15c Nuclear Processes Answers

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Conceptual Physics Lab Activity 15c Nuclear Processes Answers:

Conceptual Physics Lab Activity 15c Nuclear Processes Answers: Bestsellers in 2023 The year 2023 has witnessed a noteworthy surge in literary brilliance, with numerous engrossing novels enthralling the hearts of readers worldwide. Lets delve into the realm of popular books, exploring the captivating narratives that have captivated audiences this year.

Conceptual Physics Lab Activity 15c Nuclear Processes Answers : Colleen Hoover's "It Ends with Us" This heartfelt tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover expertly weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can prevail.

Uncover the Best : Taylor Jenkins Reid's "The Seven Husbands of Evelyn Hugo" This intriguing 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.

Conceptual Physics Lab Activity 15c Nuclear Processes Answers : Delia Owens' "Where the Crawdads Sing" This mesmerizing coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens weaves 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 exceptional and suspenseful novel that will keep you guessing until the very end. The novel is a warning tale about the dangers of obsession and the power of evil.

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