

## Nuclear Stability

We can establish a pattern of reactions between protons and neutrons in nuclear reactions



The question is why, for example, some nuclei undergo an alpha decay and not a beta decay. This has to do with the **neutrons to protons ratio** ( $n/p$ ) in the nuclei. When the nuclei of all 1000 known isotopes are plotted (based on their number of protons and neutrons), a **band (belt) of stability** is obtained (blue region). The nuclei in this region are stable. The isotopes that fall outside of this region (are off-balance) are radioactive and decay spontaneously. Example 11 is the last element on the band of stability, so all nuclei with 84 or more protons are radioactive. The type of radioactivity depends on the  $n/p$

- The nuclei above the band of stability tend to decrease the  $n/p$  ratio.
- The nuclei below the band of stability tend to increase the  $n/p$  ratio.



Nuclei with the **magic numbers** of 2, 8, 20, 28, 50, or 82 protons or 2, 8, 20, 28, 50, 82, or 126 neutrons, and in general, with even numbers of protons, neutrons are more stable.

## Rates of Radioactive Decay

Radioactive decay obeys first-order kinetics laws. And although the half-life of radioactive elements may vary enormously ( $10^2$  second to billions of years), it is independent of the quantity of the element. This advantage is used in **radiocarbon dating** which is used for **estimating the ages of fossils and artifacts**. The technique is based on the rate of  ${}^{14}\text{C}$  decay which spreads from the atmosphere to living organisms.



The half-life of carbon-14 decay is averaged by emission of a  $\beta^-$  particle is 5715 years.



The  ${}^{14}\text{C} : {}^{12}\text{C}$  ratio is constant in living organisms. However, when a living organism dies, the  ${}^{14}\text{C} : {}^{12}\text{C}$  ratio begins to decrease, and so does the decay rate of  ${}^{14}\text{C}$ . The relationship of the quantity or rates of decay is given by the first-order rate law:

$$\ln \left( \frac{N}{N_0} \right) = -kt \quad \ln \left( \frac{\text{rate}_t}{\text{rate}_0} \right) = -kt$$

**Example:** A sample of wood from an Egyptian mummy case gives a count of 9.4 counts/g this is the current decay rate determined experimentally. How old is the wood if its initial decay rate is 15.3 counts/g?

**Solution:** We are going to use the integrated rate law of first-order reactions. The rates are given, so we need to determine the rate constant of the decay.

The half-life of first-order reactions is  $t_{1/2} = 0.693/k$ . Therefore,  $k$  is:

$$k = \frac{0.693}{t_{1/2}} = \frac{0.693}{5715 \text{ y}} = 1.210 \times 10^{-4} \text{ y}^{-1}$$

$$\ln \left( \frac{9.4}{15.3} \right) = (1.210 \times 10^{-4}) \times t \quad \Rightarrow \quad t = \frac{\ln \left( \frac{9.4}{15.3} \right)}{(1.210 \times 10^{-4})} = \boxed{4,829 \text{ years}}$$

## Energy Changes in Nuclear Reactions

The energies involved with nuclear reactions are extremely large. For example, the energy change in this reaction is  $-4.1 \times 10^{12} \text{ J/mol}$



For comparison, the energy change for combustion of 1 mol  $\text{CH}_4$  is 890 kJ/mol.

# Section 2 nuclear Chemistry Study Guide Key

**Jiyuan Zhang**



## **Section 2nuclear Chemistry Study Guide Key:**

Section 2nuclear Chemistry Study Guide Key: Bestsellers in 2023 The year 2023 has witnessed a noteworthy surge in literary brilliance, with numerous compelling novels captivating the hearts of readers worldwide. Lets delve into the realm of popular books, exploring the engaging narratives that have enthralled audiences this year. The Must-Read : 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 expertly weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can succeed. Section 2nuclear Chemistry Study Guide Key : Taylor Jenkins Reids "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. Reids captivating storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Discover the Magic : Delia Owens "Where the Crawdads Sing" This captivating 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, captivating 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 captivating stories waiting to be discovered. The novel begins with Richard Pape, 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 brilliant and gripping 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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