

PERIODIC TABLE

Atomic Properties of the Elements

NIST
National Institute of
Standards and Technology
U.S. Department of Commerce

Frequently used fundamental physical constants																		Physics Laboratory		Standard Reference Data					2
For the most accurate values of these and other constants, visit physics.nist.gov/constants																		physics.nist.gov		www.nist.gov/srd					He
1 second = 9 192 631 770 periods of radiation corresponding to the transition between the two hyperfine levels of the ground state of ¹³³ Cs																									
speed of light in vacuum c = 299 792 458 m s ⁻¹ (exact)																									
Planck constant h = 6.626 070 15 × 10 ⁻³⁴ J s (exact)																									
elementary charge e = 1.602 176 634 × 10 ⁻¹⁹ C																									
electron mass m _e = 9.109 383 71 × 10 ⁻³¹ kg																									
proton mass m _p = 1.672 621 9 × 10 ⁻²⁷ kg																									
fine-structure constant α = 1/137.035 999 084																									
Rydberg constant R _∞ = 10 973 731.568 162 85 × 10 ¹⁰ m ⁻¹																									
Boltzmann constant k = 1.380 658 × 10 ⁻²³ J K ⁻¹																									
</																									

Atomic Number: 58
Ground-state Ionization Energy (eV): 5.5337

Symbol: **Ce**
Name: Cerium
Atomic Weight: 140.116
Ground-state Configuration: [Xe]4f¹5d¹6s²

*Based upon ¹²C. () indicates the mass number of the longest-lived isotope.

For a description of the data, visit physics.nist.gov/data

NIST SP 966 (September 2010)

Periodix Table Study Packet

James E. Brady, Fred Senese



Periodix Table Study Packet:

The Top Books of the Year Periodix Table Study Packet The year 2023 has witnessed a noteworthy surge in literary brilliance, with numerous captivating novels enthralling the hearts of readers worldwide. Lets delve into the realm of popular books, exploring the engaging narratives that have charmed audiences this year. The Must-Read : Colleen Hoover's "It Ends with Us" This poignant 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 prevail. Uncover the Best : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This spellbinding historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids absorbing 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 mesmerizing coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens crafts a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These popular 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 compelling 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 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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