

Name: _____

Identifying Atoms and Ions

Journey into the Atom Part A - Atomic Structure

Pre-Activity Questions:

How do you find the atomic mass of an element if you know the number of protons and neutrons?

How do you determine the charge an atom has?

Introduction:

Atoms are composed of subatomic particles, such as the protons and the neutrons, which make up the nucleus of the atom and are similar in mass, and electrons, which are found orbiting the nucleus in an electron cloud and have a negligible mass. All atoms contain the same kinds of particles but may differ in the number of each particle. This accounts for the presence of isotopes and ions for the different elements.

This activity will allow you to use what you know about the composition of the atom, as well as isotopes and ions, to describe sixteen atoms. The atoms are contained in Petri Dishes and the subatomic particles are coded as follows:

Protons – Black Beads

Neutrons – Green Beads

Electrons – Marked on the Back of the Dish and on the title of the picture

******To use your time wisely, complete the first 3 columns of your table (# of protons, neutrons and electrons) before you complete the rest of the table.******

Objective:

Students will collect data and relate number of subatomic particles to atomic number, mass number, electrical charge, atomic symbol, and name of element.

Procedure:

Analyze each dish (atom) and record its vital statistics in the data table provided.

AFTER YOU COMPLETE THE ENTIRE TABLE, ANSWER THE FOLLOWING QUESTIONS:

Data Analysis:

1. List the isotopes that are on your table. How do you know they are isotopes?

2. List the ions that are on your table. How do you know they are ions?

Dream Journey Into The Atom Nclark

JR Anderson



Dream Journey Into The Atom Nclark:

Dream Journey Into The Atom Nclark: 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 fascinating narratives that have captivated audiences this year. The Must-Read : Colleen Hoover "It Ends with Us" This touching tale of love, loss, and resilience has gripped 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. Dream Journey Into The Atom Nclark : 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. Dream Journey Into The Atom Nclark : 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 bestselling 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 Papan, 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 cautionary tale about the dangers of obsession and the power of evil.

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