

Name: _____

Period: _____

Ch. 18:3

The Atom Board—Making Atoms

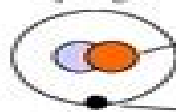
of protons = atomic

Protons are _____

Electrons are _____

Neutrons are _____

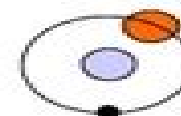
Hydrogen



Protons and neutrons go in the nucleus.

Electrons are in orbits around the nucleus.

Atomic # = protons = 1



Incorrect! - neutrons belong in the nucleus with the protons.

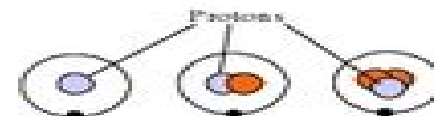
Hydrogen	
1	
H	
1.01	
1, 2, 3	

Finding number of neutrons

Atomic # = number of _____

Mass # = number of _____

Neutrons = Mass # - Atomic #



Hydrogen 1
1 - 1 = 0 n

Hydrogen 2
2 - 1 = 1 n

Hydrogen 3
3 - 1 = 2 n

of electrons = # of protons

Electrons

Hydrogen
Atomic # = 1
1 proton
1 electron



Helium
Atomic # = 2
2 protons
2 electrons

In a neutral atom, there is one electron for every proton.

Neon 21
Atomic # = 10
10 protons
11 neutrons

Neon 21



needs a tenth electron

Incorrect! 10 protons attract 10 electrons. There is one electron missing.

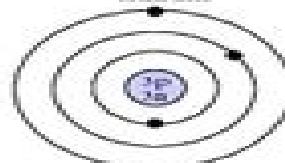
Electrons fill up inner orbits first

Opposites attract



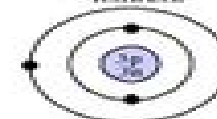
So electrons will want to get as close to the nucleus as possible by filling up inner electron levels first.

Lithium



Incorrect! - The electrons will fill up the inner levels first. First level takes 2 electrons.

Lithium



Correct! - Inner orbit is full (with 2); one outer electron.

The Atom Cstephenmurray Answers

G. C. Morris



The Atom Cstephenmurray Answers:

The Question of the Atom Mary J. Nye, 1983-01-01 Taming the Atom Hans Christian Von Baeyer, 1995-10-01
Fascinating accessible study covers the components of the atom quantum mechanics the atomic landscape atoms in isolation quantum reality and more Lucid and entertaining The New York Times Book Review **The Study of the Atom** Francis Preston Venable, 1904 The HISTORY of the ATOM the PERIODIC TABLE and RADIOACTIVITY Alex Kimmons, 2021-05-15
THE HISTORY OF THE ATOM THE PERIODIC TABLE and RADIOACTIVITY monochrome Chemistry is an interesting and fundamental branch of science because it gives us the chance to explain the secrets of nature What is water What do we use in our cars as fuel What is aspirin What are perfumes made of These kinds of questions and their answers are all part of the world of chemistry There is no industry that does not depend upon chemical substances the petroleum pharmaceuticals garment aircraft steel and electronics industries for example as well as agriculture all utilize the science of chemistry This book helps everyone to understand nature However one does not need to be a chemist or scientist to understand the simplicity within the complexity around us The aim was to write a modern up to date book where students and teachers can get concise information about the structure of substances Sometimes reactions are given in the detailed form but in general excessive detail has been omitted The book is designed to introduce fundamental knowledge in three areas the history of the atom the periodic table and radioactivity We will study the historical development of atomic structure theories the tendencies of elements in periods and groups and the types of emissions and uses of radioactivity The Atom George Paget Thomson, 1963 The Project Physics Course Harvard Project Physics, F. James Rutherford, 1975 **Atom (Icon Science)** Piers Bizony, 2017-05-04 Riddled with jealousy rivalry missed opportunities and moments of genius the history of the atom s discovery is as bizarre as capricious and as weird as the atom itself John Dalton gave us the first picture of the atom in the early 1800s Almost 100 years later the young misfit New Zealander Ernest Rutherford showed the atom consisted mostly of space and in doing so overturned centuries of classical science It was a brilliant Dane Neils Bohr who made the next great leap into the incredible world of quantum theory Yet he and a handful of other revolutionary young scientists weren t prepared for the shocks Nature had up her sleeve This insightful compelling book New Scientist reveals the mind bending discoveries that were destined to upset everything we thought we knew about reality and unleash a dangerous new force upon the world Even today as we peer deeper and deeper into the atom it throws back as many questions at us as answers
The Britannica Guide to the Atom Britannica Educational Publishing, 2010-10-01 Common to all matter and its smallest and most fundamental unit the atom determines the properties of a substance and how it responds to other materials and stimuli Dividing the atom further reveals several smaller particles whose activity forms the heart of nuclear physics Readers will discover the structure of the atom as well as the ways in which its electrons protons and neutrons facilitate both radioactivity and nuclear reactions both of which have been crucial to technological advancements since the 20th century

The Mysteries of the Atom Harold Albert Wilson,1934 *Questions and Answers on the Atom for Progress and Peace*,1954 *A chemist's view of the atom* G. C. Morris,1972 **The Atom** Jack Challoner,2018 Until now popular science has relegated the atom to a supporting role in defining the different chemical elements of the periodic table This bold new title places its subject center stage shining the spotlight directly onto the structure and properties of this tiniest amount of anything it is possible to identify The book covers a huge range of topics including the development of scientific thinking about the atom the basic structure of the atom how the interactions between atoms account for the familiar properties of everyday materials the power and mystery of the atomic nucleus and what the mysterious quantum realm of subatomic particles and their interactions can tell us about the very nature of reality Sparkling text banishes an outdated world of dull chemistry as it brightly introduces the reader to what everything is made of and how it all works on the most fundamental level The Story of the Atom William Francis Fairfax Shearcroft,1925 Understanding the Atom: The Chemistry of the Noble Gases U.S. Atomic Energy Commission,1967 **Questions and Answers on the Atom for Progress and Peace**,1954 *Introducing the Atom* Roslyn D. Leeds,1967 An introduction to nuclear physics through a definition of the atom and an analysis of its functions and behavior Includes a biographical listing of major scientists who have contributed to the field of nuclear physics as well as a glossary of terms The Atom Albert Cushing Crehore,1920 **The A B C of Atoms** Bertrand Russell,1923 Splitting the Atom Alan Morton,2005 This fabulous new series takes key scientific developments from the last century and investigates how they came about their creation or discovery and their long term effects Each book places the development in the context of its time to increase awareness of some of the amazing discoveries that have helped to shape the world today and the key people behind each of these scientific milestones Splitting the Atom investigates the theories and practical developments that led to the turning point in nuclear science the realisation that splitting the nucleus of an atom created energy that could be harnessed for good and for ill **The Universe and the Atom** Marion Erwin,1915

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