







# Study Buddy: Atomic Structure and Nuclear Chemistry

## Development of the Modern Atomic Theory

Scientist	Experiment	Findings	Limitations	Model
Democritus	No experiment	Atoms are the smallest form of matter and cannot be created, destroyed or divided	Did not explain chemical behavior	
Dalton	Use experiments of previous scientists	Postulates: Atoms of elements are identical; atoms can't be created or destroyed; atoms combine in whole number ratios in a chemical reaction	Did not include sub-atomic particles	
Thomson	Cathode ray	Discovered the electron "Plum-pudding" Model	Did not explain deflection pattern of alpha particles as seen by Rutherford	
Rutherford	Gold foil	Discovered the proton and nucleus. Atoms contain mostly empty space.	Could not explain why electrons do not crash into the nucleus	
Chadwick	Alpha particles	Discovered the neutron	No modification of atom model	No new model/neutron later add to nucleus
Bohr	Uses findings from previous scientists and Quantum theory	Electrons are in orbits of differing energy levels.	Does not explain the behavior of other elements just hydrogen	
Modern Atom	Multiple experiments	Electron cloud and dual nature of electrons	Still doesn't explain the exceptions.	

## Parts of an Atom (8<sup>th</sup> Grade Review)

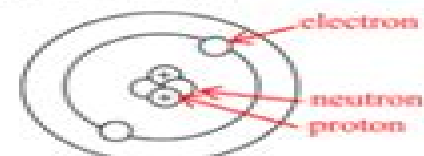
Sub-atomic Particle	Location	Charge	Mass
Proton (p <sup>+</sup> )	Nucleus	1+	1
Neutron (n <sup>0</sup> )	Nucleus	0	1
Electron (e <sup>-</sup> )	outside the nucleus	1-	0 or 1/1840

## Nuclear Symbol Carbon-14



Protons:	6
Neutrons:	8
Atomic Number:	6
Mass Number:	14

Identify the proton, electron, neutron in the model below.



What is the atomic number of the above models? 2  
What is the atomic mass? 4.00 amu  
What element is this? Helium

# Atomic Structure Study Guide And Nuclear Processes

**Katrin Zwirgmaier**



## **Atomic Structure Study Guide And Nuclear Processes:**

## The Enigmatic Realm of **Atomic Structure Study Guide And Nuclear Processes**: Unleashing the Language is Inner Magic

In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing in short supply of extraordinary. Within the captivating pages of **Atomic Structure Study Guide And Nuclear Processes** a literary masterpiece penned by a renowned author, readers attempt a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book's core themes, assess its distinct writing style, and delve into its lasting effect on the hearts and minds of those who partake in its reading experience.

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