

Atomic Structure Quiz PDF

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Which subatomic particle is found in the nucleus and has no charge?
○ Proton
○ Electron
○ Neutron
Opositron
Which of the following are quantum numbers used to describe electron orbitals?
Principal quantum number (n)
Angular momentum quantum number (I)
Magnetic quantum number (m)
Spin quantum number (s)
What is the charge of a proton?
○ Neutral
Opositive
Negative
○ Variable
What does the atomic number of an element represent?
O Number of neutrons
O Number of electrons
O Number of protons
Mass number
What type of bond is formed by the sharing of electrons?
Olonic
○ Covalent

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Which of the following are isotopes of hydrogen?
□ Protium□ Deuterium□ Tritium□ Helium
Which element is represented by the atomic number 6?
Oxygen Carbon Nitrogen Borom
Which of the following elements has the highest electronegativity?
HydrogenOxygenFluorineNitrogen
Which of the following particles are found in the nucleus of an atom?
□ Protons□ Neutrons□ Electrons□ Positrons
Discuss the differences between ionic and covalent bonds in terms of electron transfer and sharing.

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What are the possible values for the magnetic quantum number (m) for an electron in a p orbital?
□ -1
0
+1
+2
Describe how the periodic table is organized and the significance of its arrangement.
Which of the following are types of radioactive decay?
☐ Alpha decay
☐ Beta decay
☐ Gamma decay
☐ Delta decay
Explain the process of radioactive decay and its importance in scientific applications.

How does the concept of electron configuration help in predicting the chemical properties of an element?



Who proposed the nuclear model of the atom?	
○ J.J. Thomson	
○ Niels Bohr	
○ Ernest Rutherford	
○ John Dalton	
What is the role of valence electrons in chemical bonding? Provide examples.	
	11
Explain the significance of the Bohr model in the development of atomic theory.	
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What is the shape of an s orbital?	
○ Dumbbell	
○ Spherical	
O Double dumbbell	
○ Planar	

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Which factors affect the atomic radius of an element?	
□ Number of electron shells	
☐ Nuclear charge	
☐ Electron affinity	
☐ Ionization energy	