

CLASS-09
PHYSICAL SCIENCE
LESSON PLAN
CHAPTER: 06 – WHAT IS INSIDE THE ATOM ?

PERIOD NUMBER	CONCEPTS / TEACHING POINTS	PAGES IN TEXT BOOK		TEACHING PROCEDURE	TEACHING LEARNING MATERIAL	EVALUATION
		FROM	TO			
1.	Atoms	89	91	Conversation	Videos related to structure of atom, Photos related to structure of atom, Chart	Name sub atomic particles ?
	Sub atomic particles			Conversation		Who discovered proton?
	Electron, proton and neutrons			Conversation		How can we indicate electron?
2.	The structure of an atom	91	92	Conversation	Videos related to Water melon structure, Photos related to structure of atom, Chart	Who proposed plum pudding model of an atom?
	Thomson's model of the atom			Conversation		In which year Thomson proposed atomic model?
3.	Rutherford's alpha particles scattering experiment	92	94	Conversation	Videos related to Rutherford's experiment, Photos related to structure of atom, Chart	What is Rutherford's experiment?
	Rutherford's observations			Conversation		Which metal foil is used by Rutherford?
	Limitations of Rutherford's model of the atom			Conversation		What is alpha particle ?

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4.	Bohr's model of an atom	94	95	Conversation	Videos related to Bohr's atomic model, Photos related to structure of atom, Chart	Which is least energy orbital?
	Energy levels			Conversation		What is energy of outer most orbit compared to that of inner orbit ? What is the shape of orbits proposed by Niels Bohr ?
5.	Distribution of electrons in different orbits	95	96	Activity	Model of Orbits made with bangles of different radii and thermocol balls, Chart	How many electrons should be occupied in L – shell ? How many electrons are present in Sodium atom ? Which atom has 2 electrons in its L-shell ?
6.	Valency - concept	97	97	Conversation	Chart	What is valency?
7.	Valencies of different elements	98	98	Conversation	Chart	What is the valency of Sodium?
	Electrons arrangement in different atoms			Conversation		How many valence electrons present in Oxygen ?

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8.	Importance of valency	98	99	Conversation	Chart, Related Basic videos of Valency and Bonds	What is octet configuration ?
						What is the valency of Oxygen?
9.	Atomic number	99	99	Conversation	Chart	What is the atomic number of ${}_8\text{O}^{16}$?
	Atomic mass number			Conversation		How many neutrons present in ${}_{18}\text{Ar}^{40}$?
	Writing symbols of atoms			Conversation		What is the difference between atomic mass and mass number ?
10.	Isotopes	100	101	Conversation	Chart, Related Basic videos of Isotopes (Uses)	Are ${}_6\text{C}^{12}$ and ${}_6\text{C}^{14}$ isotopes ?
	Isotopes – Examples			Conversation		Give any one use of isotopes ?
	Isotopes and their applications			Conversation		Give example for Hydrogen isotopes.

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