

CLASS-09
PHYSICAL SCIENCE
LESSON PLAN
CHAPTER: 05 – ATOMS AND MOLECULES

PERIOD NUMBER	CONCEPTS / TEACHING POINTS	PAGES IN TEXT BOOK		TEACHING PROCEDURE	TEACHING LEARNING MATERIAL	EVALUATION
		FROM	TO			
1.	Substances – compounds	70	71	Conversation	Chart, Photos of Lavoiser and related scientists	Who is the father of modern chemistry?
	Lavoiser scientist			Conversation		What is a chemical reaction?
	Chemical reaction – reactants and products			Conversation		What are called reactants in a reaction?
2.	Law of conservation of mass Experiment	71	72	Lab Experiment	Digital balance, Conical flask, Rubber cork, Lead nitrate, Potassium iodide, Water, beakers-2, Thread	State the law of conservation of mass?
						What is the colour of lead iodide?
						Is law of conservation of mass applicable for all chemical reactions?
3.	Law of constant proportions	72	73	Conversation	Chart, Videos related to Law of constant proportions	What is law of constant proportions?
						Who is Joseph proust?
<div style="border: 1px solid black; padding: 5px; width: fit-content; margin: auto;"> <p>NAGA MURTHY- 9441786635 Contact at : nagamurthysir@gmail.com Visit at : ignitephysics.weebly.com</p> </div>						

4.	Dalton's atomic theory	73	75	Conversation	Chart, Daltons photos and related photos, Videos related	Who stated first atomic theory?
	Atoms and molecules			Conversation		Which is used to packing food items?
	Elements and molecules			Conversation		Who stated Kana siddhantha?
5.	Elements and their names	75	76	Conversation	Charts, Berzilius photos and related photos	Why do we use symbols?
	necessary use of symbols			Conversation		What is the symbol of Carbon?
	Elements and their symbols			Conversation		What is the symbol of Nitrogen?
6.	Elements some unusual symbols	77	77	Conversation	Charts, Videos on elements periodic table	What is the Latin name of Lead?
						What is the symbols of Gold?
7.	Elements with more than one atoms	77	78	Conversation	Chart	What is atomicity?
	Atomicity			Conversation		What is the formula of Oxygen molecule?

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8.	Valency	78	80	Conversation	Chart, Card pieces containing Elements names and atomic numbers	What is a cation?
	Elements and valency			Conversation		What is the symbol of Sodium ion?
	Ion and some ions - symbols			Activity		Is chlorine forms Cl^- ion or Cl^+ ion?
9.	Atomic mass	80	81	Conversation	Chart	What is the atomic mass of Carbon?
						What is meant by IUPAC?
10.	Molecules of compounds	81	82	Conversation	Charts, Card pieces containing elements names and valency numbers separately	What is the formula of Sodium carbonate?
	Chemical formulae			Conversation		What is the formula of sodium chloride?
	Criss cross method			Activity		What is the formula of Magnesium chloride?
11.	Molecular mass	83	83	Conversation	Chart	What is the molecular mass of NaOH?
	Formula unit mass			Conversation		What is the molecular mass of HCl?
12.	Mole concept	83	84	Conversation	Chart	What is the value of Avagadro number?
	Molar mass			Conversation		How many moles present in 18 grams of water?