ΤΟΡΙϹ	INNOVATIVE/ART INTEGRATION/EXPERENTIAL LEARNING/INTER-DISCIPLIN ARY	Expected Learning Outcomes
1.Matter in Our Surroundings	 EXPERENTIAL LEARNING 1) Detection of leakage of LPG and necessary steps to stop the leakage. 2) Use of thermometer for measurement of temperature. 3) Use of pressure cooker at high altitude to cook food faster and save fuel. 4) Use of desert coolers, cotton cloths to provide relief in summers. 5) Use earthern pots to keep water cool. 6) Use of ice in making kulfi/ice cream. 7) Use of naphthalene balls and odonil etc. ART INTEGRATION Drawing of matter triangle INTERDISCIPLINARY Integrated with mathematics	Tabulate matter around us in three different states. Learn about the physical properties of solids, liquids and gases. Analyze the effect of Kinetic energy on diffusion of particles. Understand the effect of temperature and pressure on interconversion of matter Define Sublimation Describe Latent Heat of Fusion and Vapourization. Understand the effect of pressure on inter-conversion of matter. Define Evaporation. Describe the effect of temperature, pressure, surface area and humidity on Evaporation.

2.Is Matter		Classify matter has pure and impure
Amound IIa	EXPERENTIAL LEARNING	substances
	of light by colloidal particles in	State examples of pure and impure
Pure?	dark room in gingma halls and	Substances
	formation of rainbow	Define an element
	2) Loarning of proparation of	Classify elements as metals and non
	various drinks medicines or food	State exemples of metals and non
	stuff with particular concentration	state examples of metals and non
	3) Identification of metals and	State physical properties of metals and
	non-metals	non metals
		Learn few scientific terms such as
		malleability ductility sonority etc
	ART INTEGRATION	Define compound and mixture
	Dresentation of Tundell offect and	Classify substances as pure/impure
	Presentation of Tyndair effect and	Distinguish between a mixture and a
	Brownian motion.	compound
		State examples of mixture and
		compound
		Classify mixtures as homogeneous
	INTERDISCIPLINARY	and heterogeneous.
	Interveted with methometics and	Classify mixtures on basis of their
	integrated with mathematics and	particle size
		Study properties of solutions
		State examples of solution
		Study saturated, unsaturated and
		supersaturated solutions
		Observe the effect of temperature on
		these solutions
		Solve numerical based on mass by
		volume percentage of a solution.
		Define suspension.
		Tell the properties and examples of
		Suspension.
		Toll the properties and examples of
		colloide

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3. Atoms and		Define law of conservation of mass.
Meleguleg	EXPERENTIAL LEARNING	Justity the law of conservation of
Morecures	1) Verification of law of	mass.
	conservation of mass.	Define the law of constant proportion.
		Justify the law of constant proportion.
	ART INTEGRATION	List the postulates of Daltons' Atomic Theory.
	Formula formation by using	Solve the numerical based on the law
	criss-cross method	of conservation of mass.
		Describe atom.
		Explain the size of an atom.
	INTERDISCIPLINARY	List the symbols of elements.
	Integrated with mathematics, english	Memorise the symbols used for the
	and history	element.
		Define atomic mass unit (amu).
		Explain the significance of atomic
		mass unit.
		Describe molecule.
		Differentiate between molecule of
		element and molecule of compound.
		Define atomicity.
		Describe ions.
		Define polyatomic ions.
		List polyatomic ions, symbol and
		valency.
		List the name of ion, its symbol and
		valency.
		Memorise the name of ion, is symbol
		and valency.
		Write the chemical formulae of
		compounds.
		Conceptualize molecular mass and
		mole.
		Calculate the molecular mass of
		compounds.
		Calculate the formula unit mass of
		compounds.

4 Structure		Describe the structure of an atom.
	EXPERENTIAL LEARNING	Tell the charge particles of an atom.
of	1) Working of discharge	Describe the charge and mass on
7+0-	tubes with special reference of	sub-atomic particles of an atom.
	cathode rays and anode rays.	Explain Thomson Model of an atom.
	2) Presentation of structure	Describe the Rutherford Model of an
	of atom according to Thomson	Atom.
	model and alpha particle	List the observation, inference and
	scattering experiment.	conclusion based on Rutherford Model
		of Atom.
	ARTINIEGRATION	Explain the drawback of Rutherford
	Pictorial representation of	Model of an atom.
	structure of atoms of various	List the postulates of Bohr's Model of
	elements	Atom.
		Explain the distribution of electrons in
		different orbits.
	INTERDISCIPLINARY	Define valency.
	Integrated with mathematics and	Explain valency.
	history.	Memorise the valency of elements.
		Define atomic number and mass
		number.
		List the significance of atomic number
		and mass number.
		Define Isotopes and Isobars.
		Differentiate between isotopes and
		isobars.
		Tell the examples of isotopes and
		isobars.
		List the applications of Isotopes.