

**CAMBRIAN PUBLIC SCHOOL**  
**KANKE ROAD, RANCHI**  
**SESSION (2024-2025)**

**Class- IX**

**Subject- Chemistry**

**Learning Plan Outcomes**

<b>S. No.</b>	<b>Month</b>	<b>Name of the Chapter</b>	<b>Learning Outcomes</b>
<b>1.</b>	April / May	Matter in our Surroundings	<ul style="list-style-type: none"><li>• Students will learn and understand what is matter and how it is classified.</li><li>• They will get an understanding of characteristics of particles of matter.</li><li>• They will learn the importance of matter in our daily life considering the phenomenon like evaporation.</li><li>• Will learn about application of latent heat of fusion and vaporisation...</li></ul>
<b>2.</b>	June / July / August	Is Matter around us pure	<ul style="list-style-type: none"><li>• Will learn how matter is classified based on chemical composition into pure and impure.</li><li>• Will learn &amp; analyse the types of elements present.</li><li>• Students will learn about difference in mixtures and compounds, physical and chemical changes.</li></ul>

			<ul style="list-style-type: none"> <li>• It will help them to develop their environmental knowledge.</li> <li>• They will get an understanding of different types of solutions .</li> </ul>
3.	September / October / November	Atoms & Molecules	<ul style="list-style-type: none"> <li>• Will be able to analyse &amp; differentiate between atoms and molecules.</li> <li>• Will get knowledge about Dalton's atomic theory.</li> <li>• Students will learn and understand the importance of symbols of elements.</li> <li>• Apply the knowledge of writing the formula of molecular compounds.</li> <li>• Demonstrate the importance of law of conservation of mass.</li> <li>• Analyse and differentiate between atoms and ions as well as cations and anions.</li> </ul>
4.	December / January	Structure Of Atoms	<ul style="list-style-type: none"> <li>• Students will get an understanding of characteristics of particles of atoms (electrons, protons &amp; neutrons).</li> <li>• Will be able to demonstrate the importance of various models of atoms like Thomson's model, Rutherford's model &amp; Bohr's model of atom.</li> <li>• Will develop understanding between isotopes and isobars.</li> <li>• Will apply the knowledge of radioactive compounds: how</li> </ul>

			<p>radioactive isotopes traces are used in medicine to detect presence of tumours &amp; blood clots etc. in human body and apply in treatment of cancer.</p>
5.	February / March	Revision for Annual Examinations	<ul style="list-style-type: none"> <li>• Brushing up of concepts taught in the whole semester.</li> </ul>