ODM EDUCATIONAL GROUP
Changing your Tomorrow

ODM Teachers' Note

Class	IX	Subject	CHEMISTRY
PD	7	Chapter-1	MATTER IN OUR SURROUNDING
Recapitulation of the previous class taught.	❖ Scales of Temperature. ❖ Plasma ❖ Bose-Einstein Condensate (BEC)		
Sub-Concepts	▪ Evaporation and its factors. ▪ Evaporation causes cooling. ▪ Difference between evaporation and boiling.		
Teaching Aid To be used	Smart Class, PowerPoint presentation, classroom objects, (advertisements), charts.		
Learning Outcome	• Students will be able to know concept of evaporation. • They would know of the various factors affecting the rate of evaporation. • Students will be able to know about the difference between evaporation and boiling.		
Sl. No	Step Wise (What to be done)		
1 Introduction	For Achievers Teacher should initiate the discussion on following topics, which will revolve around the core topic of the chapter like, What's your view on Melting Point? ➤ Vision to acquire knowledge of the evaporation and its factors. ➤ They would get know how evaporation causes cooling. ➤ They acquire knowledge	For Average ➤ They would made to know of the concept of evaporation and its factors. ➤ They would get knowledge regarding the reason why evaporation causes cooling. ➤ They would acquire knowledge of the differentiation between boiling and evaporation.	

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<tr><td></td><td>regarding the difference between evaporation and boiling.</td><td></td></tr>
<tr><td>2. Evaporation and the factors affecting its rate.</td><td colspan="2">• Evaporation is defined as the change of the state of matter the liquid to vapour state at any temperature below its boiling point.
• The Factors affecting the rate of Evaporation are: -
  • Temperature
  • Humidity
  • Wind Speed
  • Surface Area
  • Nature of the Liquid</td></tr>
<tr><td>3-Evaporation causes cooling.</td><td colspan="2">➤ Evaporation is a surface phenomenon in which a lot of heat.
➤ Energy is required to overcome the attractive forces within the liquid molecules to convert into the vapour state.
➤ The required energy is absorbed from the surrounding and thus causes cooling.</td></tr>
<tr><td>4.Difference between evaporation and Boiling.</td><td colspan="2"><table><tr><td>Evaporation</td><td>Boiling</td></tr><tr><td>Surface phenomena</td><td>Bulk phenomena</td></tr><tr><td>At any temperature</td><td>At 100-degree Celsius</td></tr><tr><td>Causes cooling</td><td>Do not causes cooling</td></tr></table></td></tr>
<tr><td>5.Home Assignment</td><td colspan="2">1. Explain how does evaporation causes cooling.
2. Explain the factors affecting the rate of evaporation.</td></tr>
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