


CLASS-10  
PHYSICAL SCIENCE  
PERIOD PLANS  
**CHAPTER: 01 – HEAT**

**PERIOD PLAN-09 :**

Boiling – activities

Content Analysis	Class Room Environment	Teaching Learning Material
<p><b><u>Boiling :</u></b> The process in which the liquid phase changes to gaseous phase at a constant temperature and pressure is called boiling.</p> <p>* Boiling point of water is 100°C at 1atm.</p> <p>* Boiling is an other type of vaporization.</p>	<p><b>Activity-24 :</b> Take a beaker of water. Keep it on the stove. Place a laboratory thermometer in the water with the help of retort stand. Note the readings in thermometer for every 2 minutes.</p> <p><b>Observation :</b> The temperature rises continuously till it reaches 100°C. Further there is no change in temperature. Water vapour comes out from the beaker.</p>	Beaker, stove, lab thermometer
<p><b><u>Evaporation :</u></b> The process of escaping of molecules from the surface of a liquid at any temperature is called evaporation.</p> <p>Evaporation depends upon the surface area of the liquid, temperature , humidity and wind speed.*</p> <p>Evaporation is a cooling process.</p> <p>Evaporation is the phase change from liquid to gas at any temperature</p>	<p><b>Conversation :</b> About the differences between evaporation and boiling.</p> 	AV-Clip
		Chart
<p><b><u>Latent heat of vaporization :</u></b> The heat energy required to change one gram of liquid to gas at constant temperature is called latent heat of vaporization.</p> <p style="text-align: center;">Formula : <math>L_v = \frac{Q}{m}</math></p> <p>The S.I. Unit is J/Kg .</p> <p>The C.G.S. Unit is cal/gm.</p> <p>The latent heat of vaporization of water is 540 cal/gm.</p>	<p><b>Conversation :</b> About the definition and formula and units of latent heat of vaporization.</p>	