## CLASS-10 PHYSICAL SCIENCE PERIOD PLANS

**CHAPTER: 01 – HEAT** 

## **PERIOD PLAN-02**:

Temperature –Kinetic Energy

Transfer of heat - Activity

Content Analysis	Class Room Environment	Teaching Learning Material
Heat - Kinetic Energy: The form of energy that	Activity-5: Take two bowls one with hot water and	One bowl of
flows from a body at higher	second with cold water. Gently sprinkle food colour on	hot water,
temperature to a body at lower temperature is	the surface of the water in both bowls. Observe the	One bowl of
called heat.	motion of the small grain of food colour.	cold water,
The average kinetic energy of	How do they move?	food colour
molecules of a hotter body is greater than	<b>Observation :</b> The grain of food colour move randomly.	
that of a cooler body.	The jiggling of grain of food colour is in hot water is	AM alim for
The average kinetic energy of the	more when compared the jiggling of of grain in cold	AV-clip for K.E. of
molecules is directly proportional to the	water.	molecules
absolute temperature.	SITEPHA	morecures
Transfer of heat: When two bodies are placed in	Activity-6: Take a glass beaker/jar. Fill half of it with	
the thermal contact, heat energy will be transferred	hot water. Very gently pour coconut oil over the surface	
from the hotter body to a cooler body. The transfer	of the water. Put a lid with two holes on the top of the	
of heat	jar. Insert two thermometers through the holes that the	
continues till both bodies attain the same	bulb of one thermometer lies in the coconut oil and the	Glass jar,
temperature. Then we says that the bodies	other thermometer's bulb lies in hot water. Note down	Hot water,
achieved thermal equilibrium.	the initial readings. Observe the readings in the	coconut oil,
If two different systems A and B are in	thermometers. Note down the final readings	lid, two lab
thermal contact and they are in thermal	(temperatures) in the thermometers.	thermometers
equilibrium individually with another	<b>Observation :</b> The temperature decreased gradually in	
system C, then the systems A and B are	the water. The temperature increased gradually in the	
in thermal equilibrium with each other.	coconut oil.	

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