

## Science Lesson Plan

Duration: 40 minutes

Lesson: Science

Class: 4

Subject Area: Matter And Its Nature

Unit Header: Properties of Matter

Concepts: Heating, cooling, change of state, melting, freezing

Part 2:

Gains: The same matter can be observed in different states.

Experiment will be designed to see warming and cooling.

Teaching, Teaching Methods and Technic: Explaining, Showing and Practicing, Brain Storm, Simulation, Drama

Tools and Equipment: Textbook, Interactive whiteboard

Lecture Area: School, Class

### Teaching - Learning Duration

Subject: Change of state by heating the matter and effects of heat

a. Heating and cooling of the matter

b. Effects of heating on the matter

\*Students will be asked for example of heating and cooling.

\*Students will be asked "We have learned from our previous lectures the states of matter, what are these?"

\*It will be emphasized that matter can change state by heating and cooling.

\*"How does heat change?" activity will be done. Activity stages and results will be

written down.

\*"Change of a solid matter's state to liquid state by heating is melting, change of a liquid matter's state to solid state by cooling is freezing." expression will be used and taught.

Individual Learning Activities : How does heat change?

Summary: Change of state of matter by heating

### 1. Heating and Cooling

When we put a hot matter next to a cold matter, we can observe that cold matter is getting warmer and the hot matter is getting cooler. It is called heat exchange between substances

### 2. Change of State

Change of a solid matter's state to liquid state by heating is melting, change of a liquid matter's state to solid state by cooling is freezing. Some solid matters require heat in order to be melted so that it can be reshaped.

Part 3:

Evaluation: It will be evaluated by individual or peer evaluation forms.

Part 4:

Explanation of the application of the plan: Only melting and freezing as the change of state will be mentioned.