



EDUKALA



 **dheerya**
foundation



Science

6th Grade



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CHANGES IN STATE OF MATERIALS

The state of a substance can be changed by burning or melting it. For example, melting of ice turns it from solid to liquid.



OBJECTIVES

- Students will understand the changes in state of matter as a result of burning/boiling or cooling



PRE-REQUISITES

- Chocolate
- Ice cubes (only if there's a refrigerator in school)
- Paper
- Candle
- Match stick





PRE-ASSESSMENT



1. What are the three states of matter?
(Solid, liquid, gas)



LEVEL-1 & 2

ACTIVITY:

Students are given a recording sheet. Teachers can either bring printouts or ask students to draw tables in their notebook. Template shared below.

What I did	What happened	What I learned



LEVEL-1 & 2

ACTIVITY:

- Ask the students to wash their hands
- Provide a piece of chocolate to each student
- Ask them to place it in between their palm and close it with both their hands, tightly
- After few minutes, ask them to open the palms and record their observations in the given template



LEVEL-1 & 2

ACTIVITY:

What I did	What happened	What I learned
Kept chocolate in my palm and closed it	The chocolate melted	The solid piece of chocolate became liquid due to the body heat. Thus, heating of some solids turns it into liquid.

- Now, children can eat the chocolate (a little messy, but chocolate is chocolate!)
- Similarly, an ice cube can be used to demonstrate melting of ice into liquid.



LEVEL-1 & 2

ACTIVITY: (Teacher supervision mandatory)

- Take a camphor/incense stick and burn it using candle
- Ask the students to record their observations

What I did	What happened	What I learned
Burnt the camphor	Smoke came out of camphor	the solid transforms into a gaseous state upon being exposed to fire

[fact: camphor is an ideal example for sublimation (conversion of solid into gaseous state)]



ACTIVITY:

1. How might each of these substances respond to a change in temperature? Predict what you might observe in each situation.
(answers here are for teacher's reference)

A teaspoon of butter is added to a hot frying pan	<i>butter will turn to its liquid form</i>
A glass of water is placed in the freezer overnight	<i>water will solidify to become ice</i>
A box of ice blocks is left in a hot car for two hours	<i>ice will melt to become water</i>
An ice cube is placed in a bowl of warm water	<i>solid to liquid</i>



ACTIVITY:

2. Radha wants to make bat shaped chocolates for Halloween. She has bought some blocks of dark chocolate and some bat-shaped molds. Explain how Radha can make the bat shaped chocolates by heating or cooling. (students can write answers in their notebooks)



POST ASSESSMENT

- What are some other examples of conversion from solid to liquid?
- What are some other methods, apart from burning and melting, that can be used to change phase?



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