



INTRODUCTION: The project for the month of..... is 'STATES OF MATTER'.

We would help children understand that there are three states of matter: solids, liquids and gases through fun experimental activities explaining how solids have a certain shape, liquids flow and take shape of the container they are in and gasses which spread in the air or fill up an available space though they cannot be seen.

OBJECTIVE: To help children understand the three states of matter: solids, liquids and gases.

MATERIALS REQUIRED: Three Zip pouch, Coloured ice cubes, Candle, Match box , Steel plate, Transparent glass/Bowl, Steamer.

ACTIVITY:

- The teacher would first show the ice cubes in the Zip pouch and explain that the ice cube is a solid form .She would allow the children to touch and feel the ice cubes.
- The teacher would then put the ice cubes in the other zip pouch and close it and keep it aside for a while. After a while she would show the children how the ice cube melted and became liquid. She would then pour the liquid into the zip pouch, and ask children to observe how the liquid has changed the shape according to the pouch.

- She would then place the liquid in a transparent glass/bowl and finally in a plate & tell the Children that liquids take the shape of the container that they are kept in.
- Similarly she would also place a solid object like chalk, duster, playing blocks in various containers and tell the children to observe the shape reiterating the fact that solids retain their shape irrespective of the container that they are placed in.



- After this the teacher would heat up the steel plate with the candle and pour a few drops of liquid on the plate asking the children to observe how the liquid turns into steam (gas).
- The teacher would then give examples of different states of matter the children would relate to during their daily interactions like solids: table, chair, books, pencils and crayons. Liquids: water, milk and juices. Gases: air that fills the balloon, smoke from a train, air in the tyres and vapour rising from boiling water.



PARENTAL INVOLEMENT: we would request you to help us in our endeavour in helping our young ones understand the three states of matter with examples and experiments at home as well. It would help them recapitulate the concept better.

Kindly help the child make a chart with the three states of matter like the one shown below and send it back for his/her scrap book

Solid		Liquid		Gas	
computer 	quarter 	lake 	rain 	perfume 	water vapor
candy corn 	pencil 	salad dressing 	blood 	hot air balloon 	steam
bone 	toothbrush 	ketchup 	lotion 	cologne 	bug spray
hot dog 	colored paper 	pool 	milk 		
rock 	swing 	gasoline 	paints 		

We would be glad to hear about more innovative ways of introducing the concept to the children.
