

# Zedua Experiments

**Title:** Will the Ice Melt and Overflow?

What is thermal expansion?

Thermal expansion is the tendency of matter to change in shape, area, and volume in response to a change in temperature.

Let the kids observe and understand the behaviour of materials during thermal expansion

## Materials Required:

1. A clear glass
2. Warm water
3. An ice cube

## Procedure:

1. Fill the glass upto the brim with warm water.
2. Gently lower the ice cube, make sure you don't bump the table or spill any water over the edge of the glass.
3. Watch and observe the water level carefully as the ice cube melts.

## What's happening?

Though the ice cube melts the water doesn't overflow. When water freezes to make ice it expands and takes up more space than it does as liquid. This phenomenon can also be observed in water pipes as they burst during winter. The water from the ice takes up less space than the ice itself. When the ice cube melts, the level of the water stays the same.



Source: pintrest

[www.zedua.com](http://www.zedua.com)