

## Thermal Expansion:

- an increase of volume in a substance when its temperature is raised.

↳ When **ENERGY** (ex. heat) is added to a material, you increase the kinetic energy of the particles

↳ the particles move around and create more space.

↳ material expands  $\Rightarrow$   $\uparrow$  volume

\* any kind of **matter** expands when its **temperature** increases

## Thermal Contraction

- a decrease in volume in a substance when its temperature is lowered.

↳ movement of particles slows down and take up less space as they lose energy.

↳ the **matter** contracts  $\Rightarrow$   $\downarrow$  volume

**Heat**: the **ENERGY** transferred from 1 material/object to another as a result of a difference in **temp.** or change in state.

pg. 251 #1-4