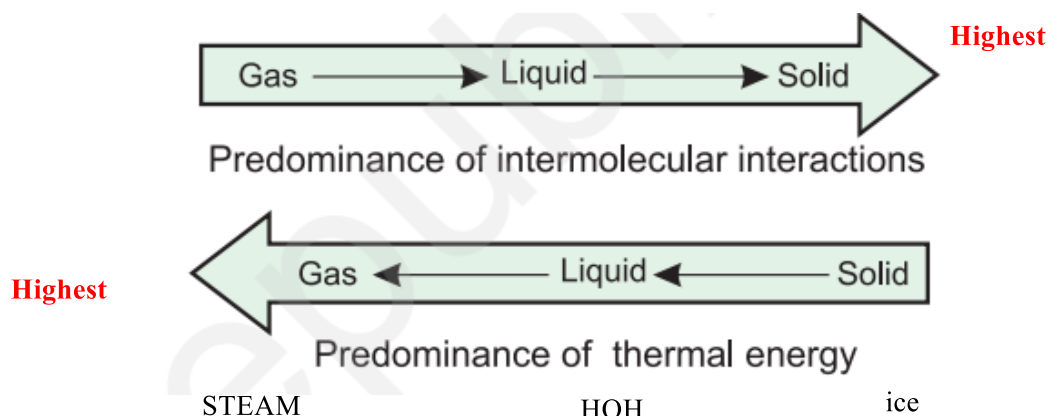


## Thermal Energy

Thermal energy is the energy of a body arising from motion of its atoms or molecules. It is directly proportional to the temperature of the substance. It is the measure of average kinetic energy of the particles of the matter and is thus responsible for movement of particles. This movement of particles is called thermal motion

Three states of matter are the result of balance between intermolecular forces and the thermal energy of the molecules.



$$a = \frac{F}{m}$$

$$\text{force} = m a$$