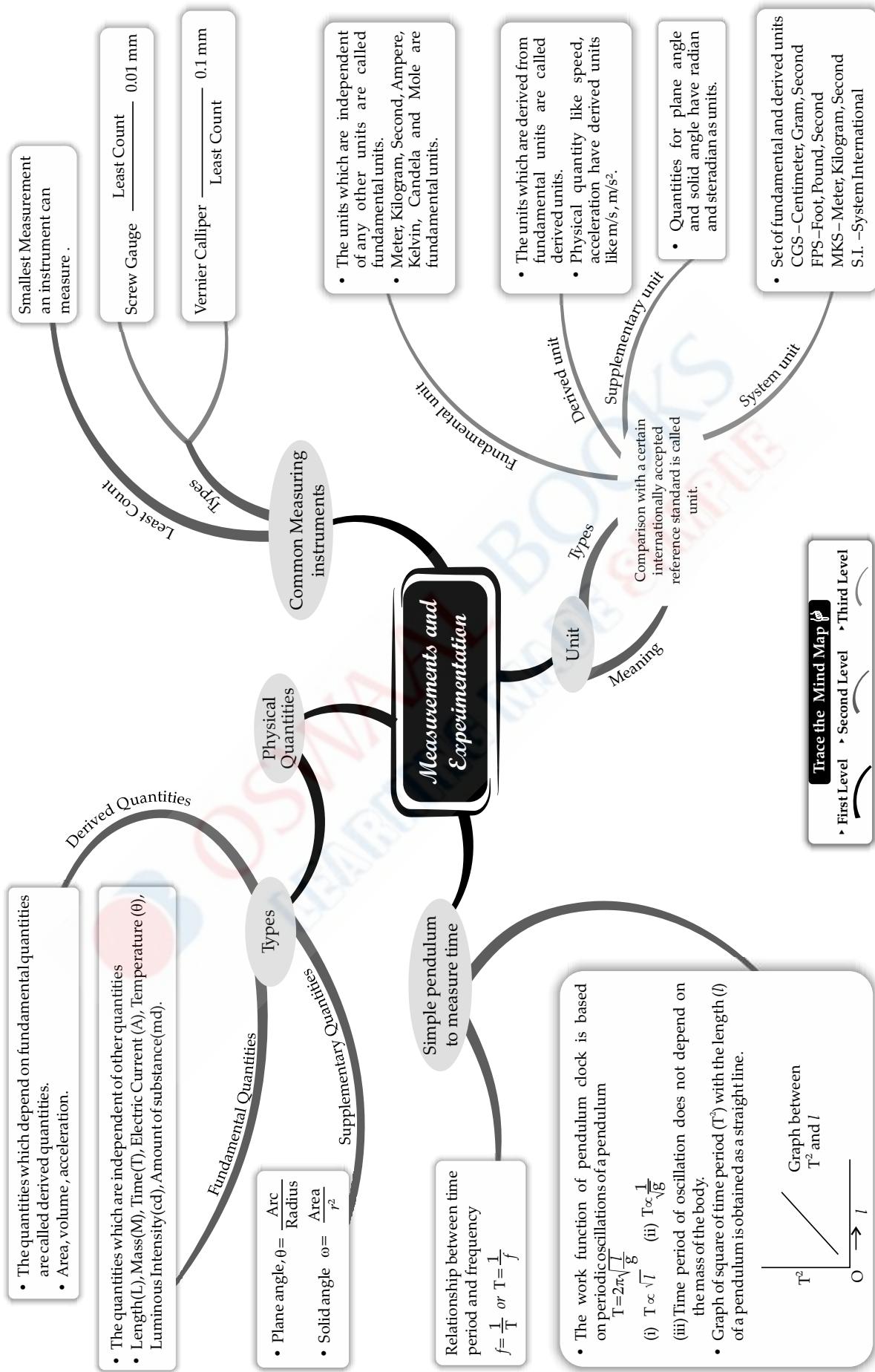




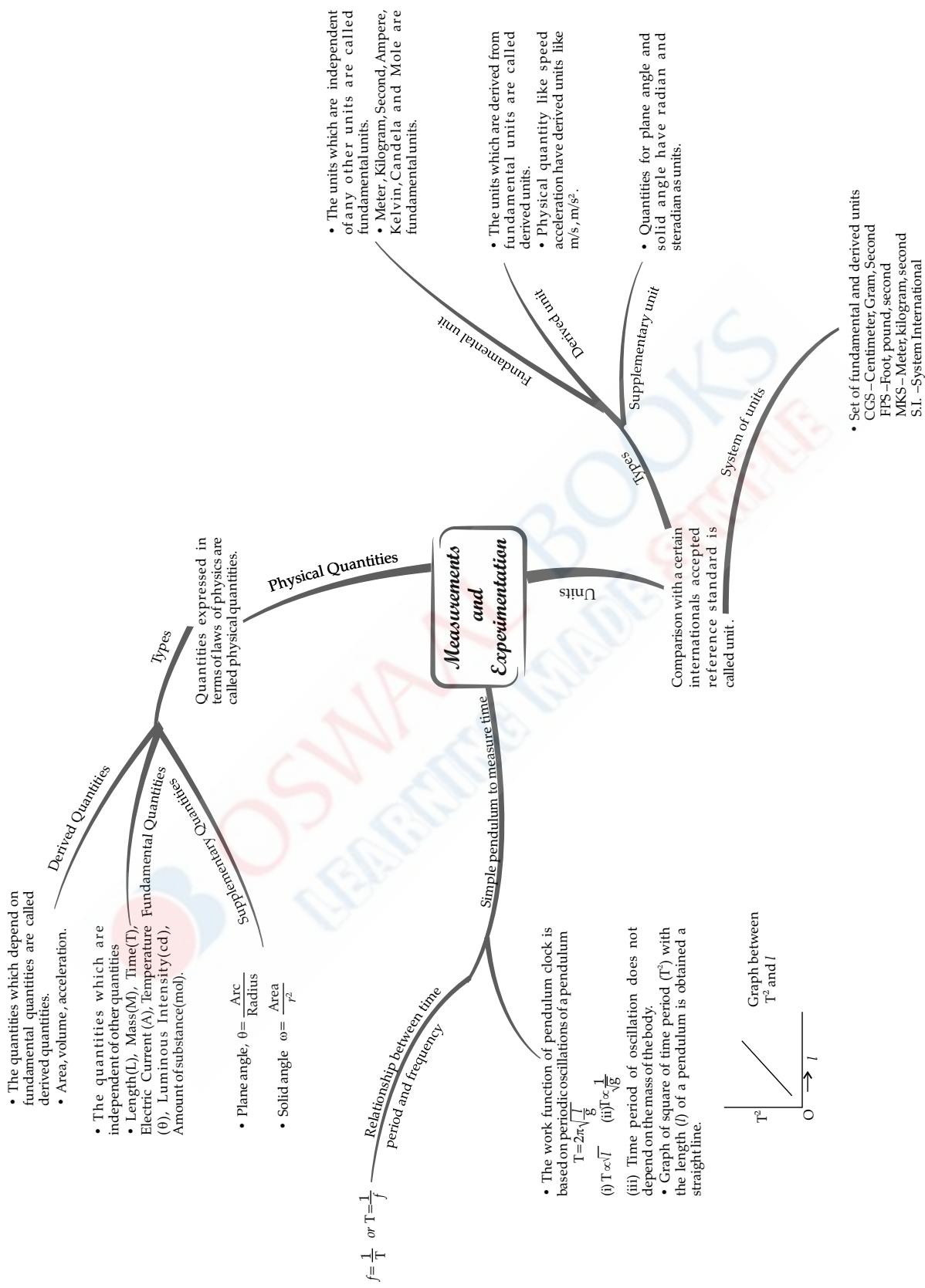
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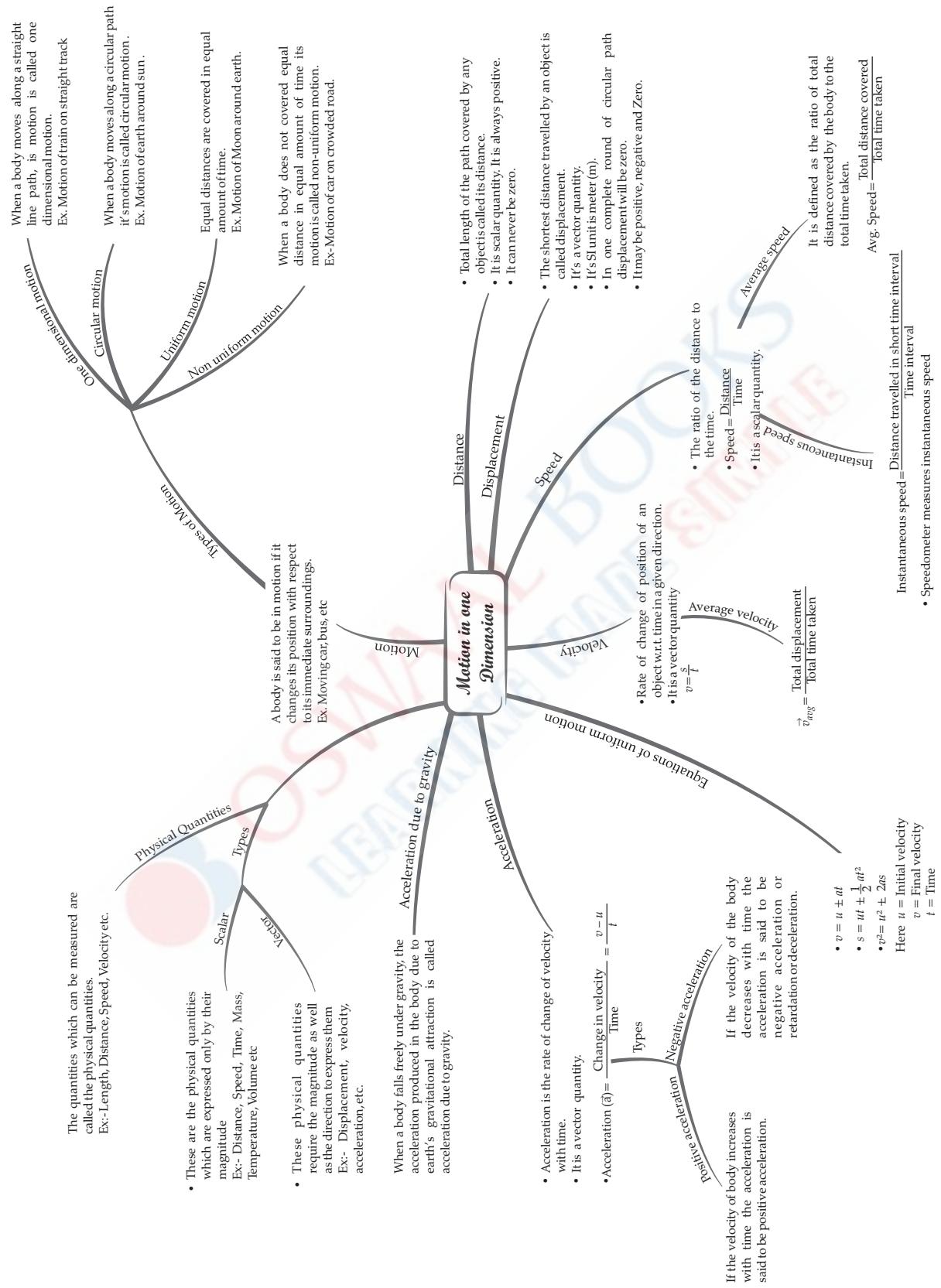


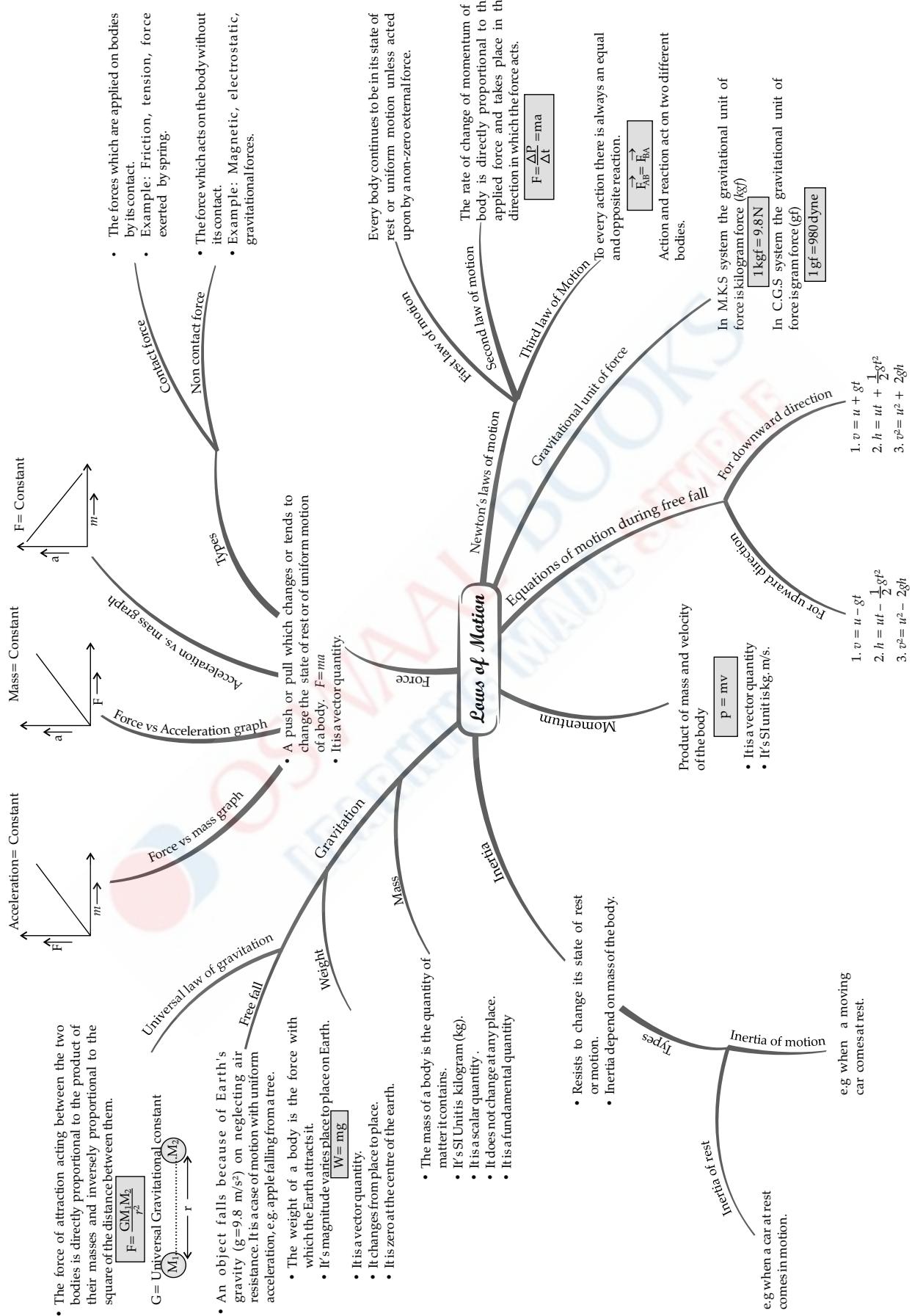
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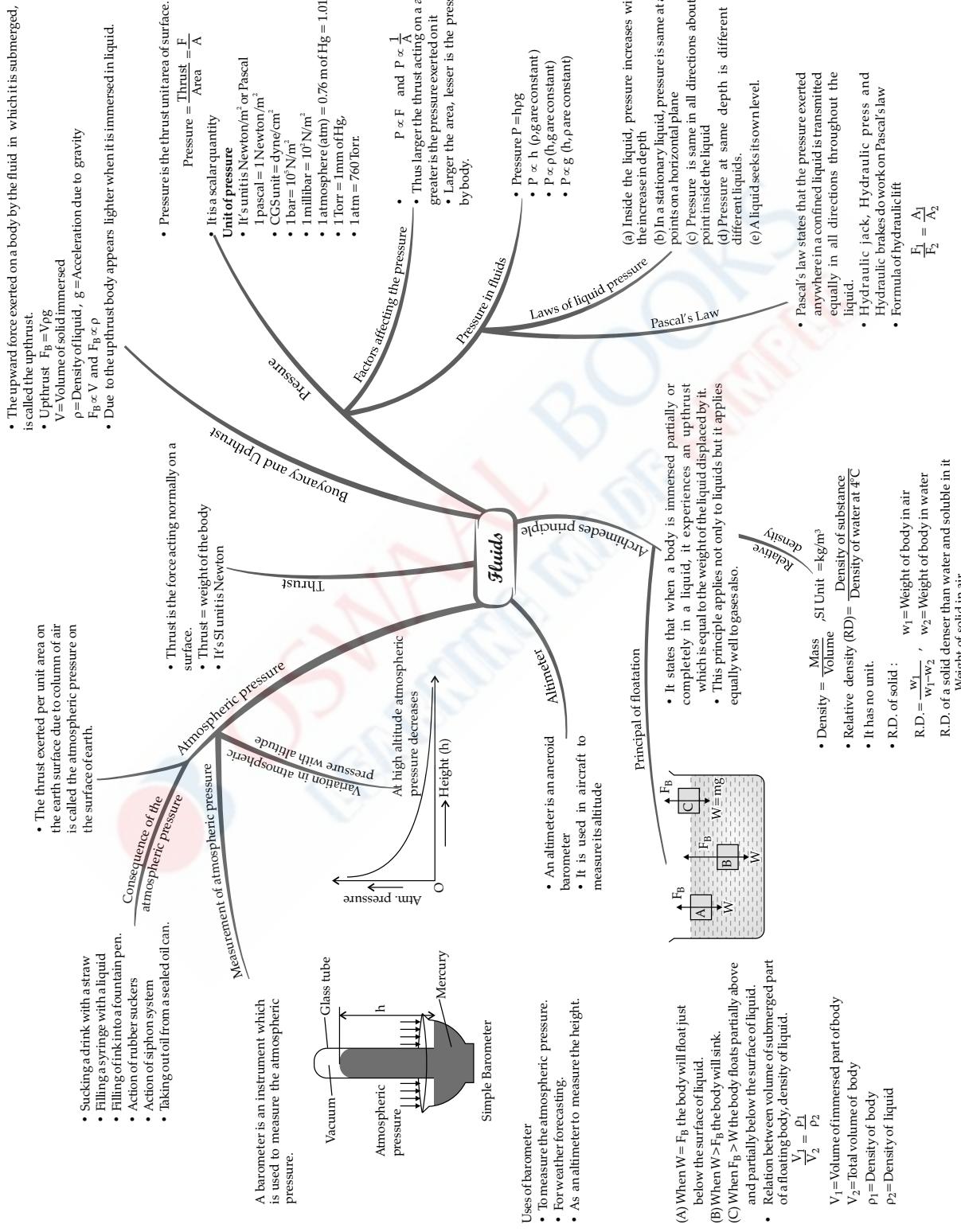


Trace the Mind Map ↗
• First Level • Second Level • Third Level

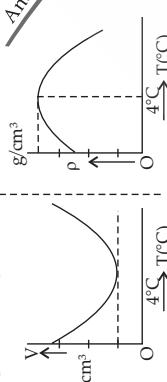








- The expansion of water when it is cooled from 4°C to 0°C is known as anomalous expansion of water.
- Density of water is maximum at 4°C which is equal to 1000 kg/m^3 .



Anomalous expansion
of water

- Heat is the internal energy of molecules constituting the body. It flows from a hot body to a cold body.
- Its S.I unit is Joule, CGS unit is erg
- $1 \text{ Joule} = 10^7 \text{ erg}$
- Other unit of heat is calorie (calorie)
- $1 \text{ Calorie} = 4.2 \text{ Joule}$
- $1 \text{ Kilocalorie} = 1000 \text{ Calories.}$

Heat

Heat and Energy

- Temperature is a quantity which tells the thermal state of a body.
- Heat flow from higher temperature to lower temperature.
- The SI unit of temperature is Kelvin (K).
- Other units of temperature are degree Celsius ($^{\circ}\text{C}$) and degree Fahrenheit ($^{\circ}\text{F}$)
- Relation between $^{\circ}\text{C}$, $^{\circ}\text{F}$ and K.

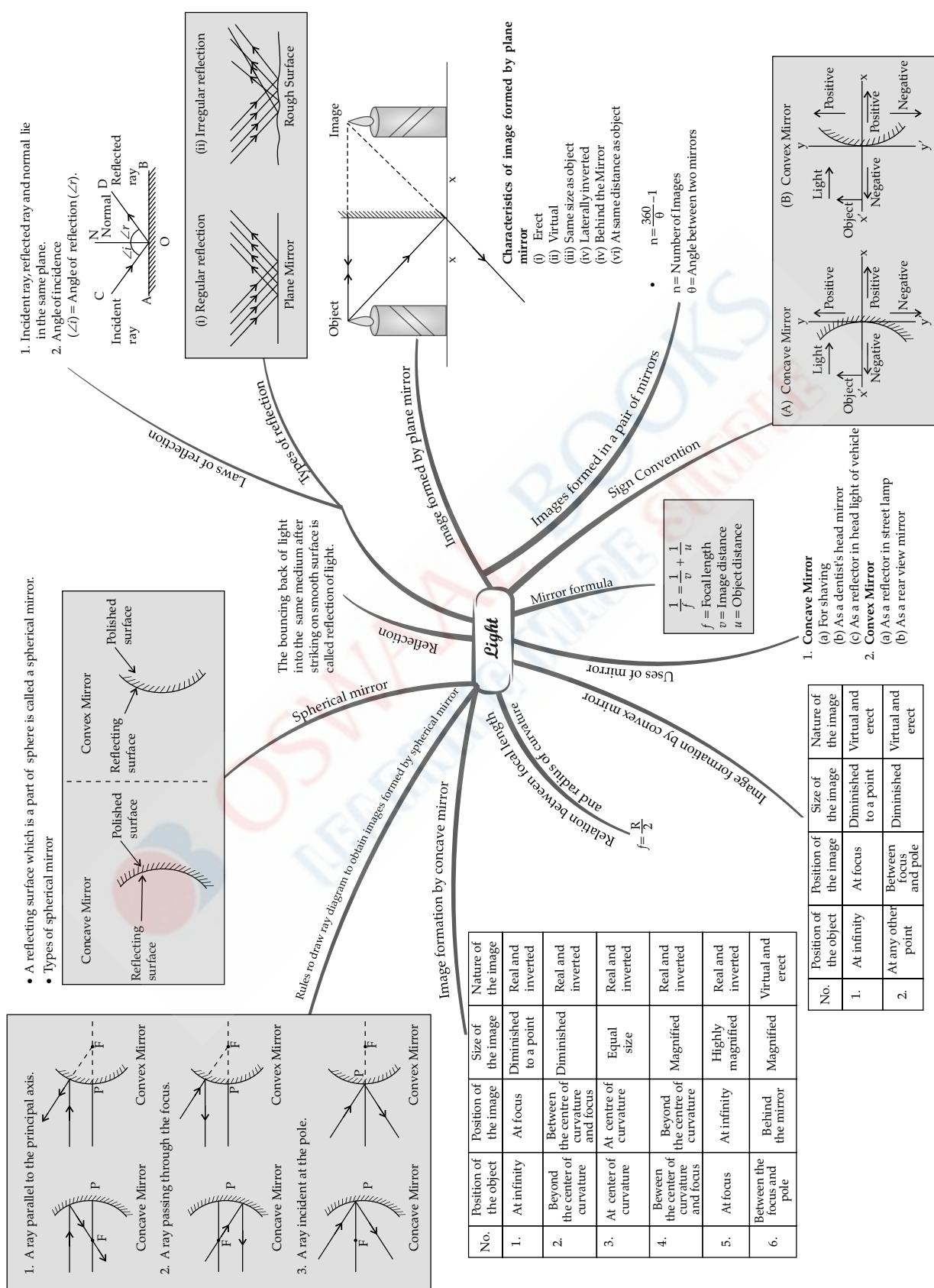
$$\frac{C}{5} = \frac{F-32}{9} = \frac{K-273}{5}$$

Global warming
Green house effect

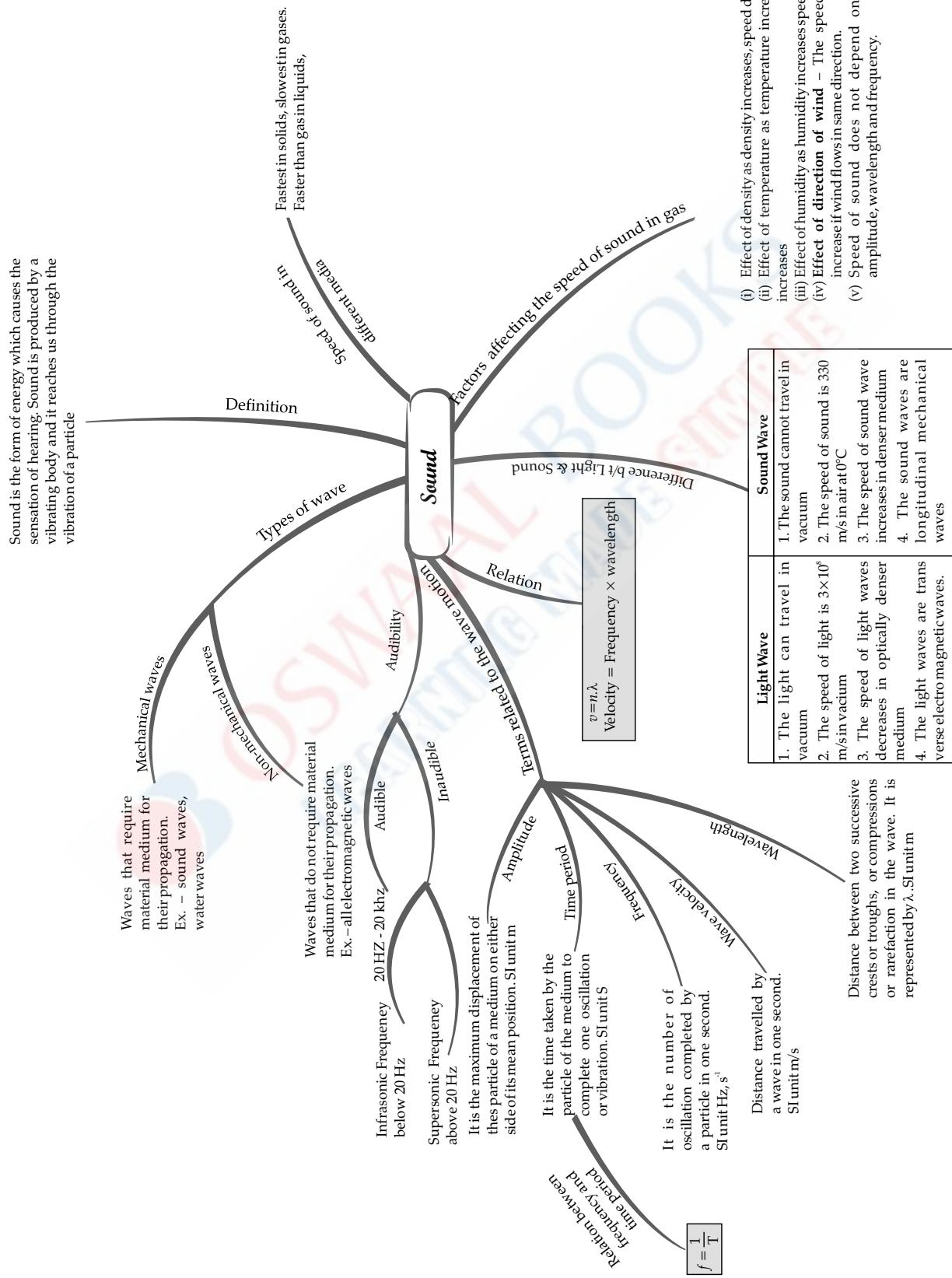
- Global warming is a long term rise in the average temperature of the Earth's climate system on aspect of climate change shown by temperature measurement and by multiple effects of the warming.

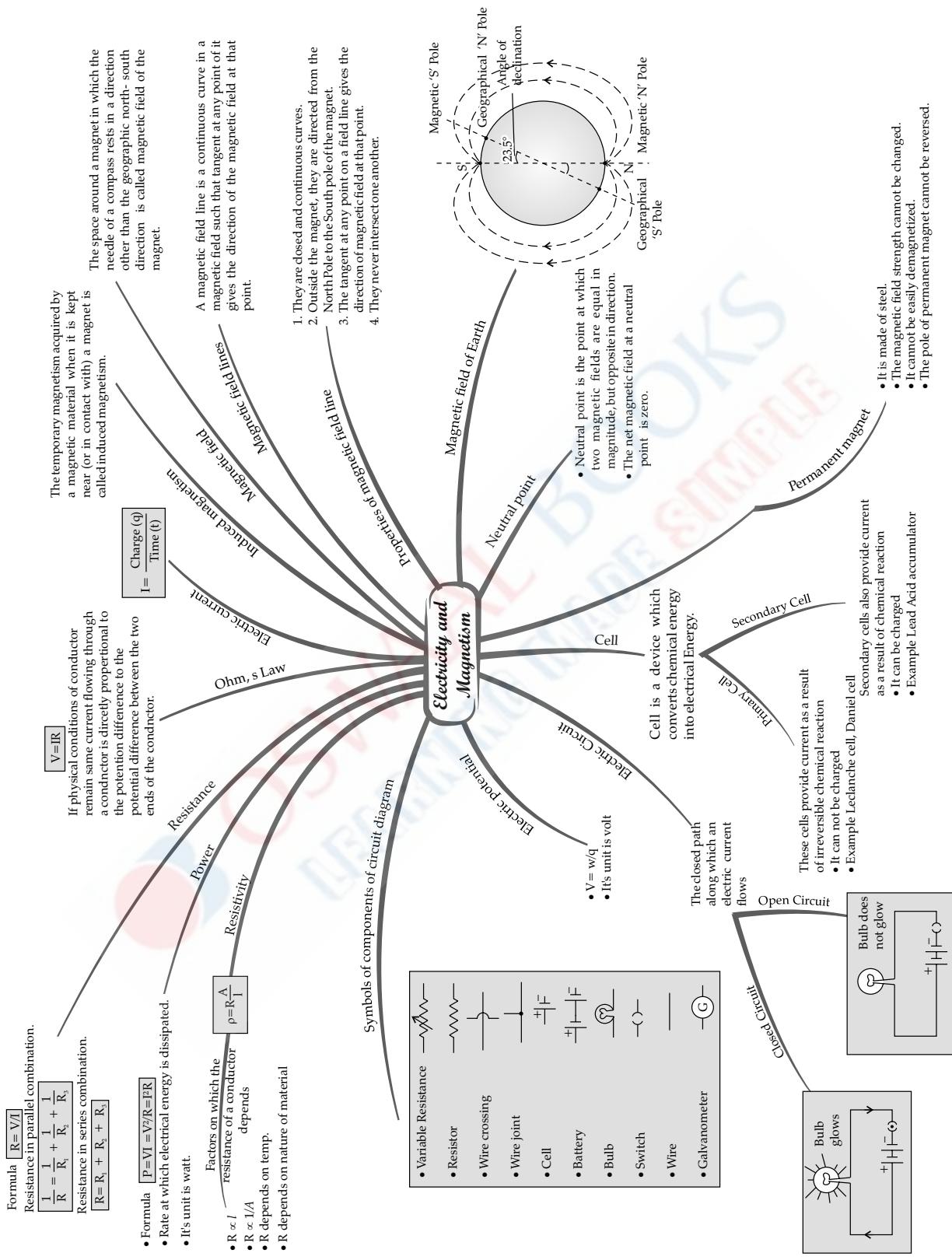
- It is discovered by Joseph Fourier in 1824.
- The greenhouse effect is the process by which radiation from a planet atmosphere warms its planet's surface to a temperature above which it would be without its atmosphere.
- Carbon dioxide and methane are green house gases.
- Melting of glacier, change in climate.
- Change in sea level, warming of ocean

Effect
Cause

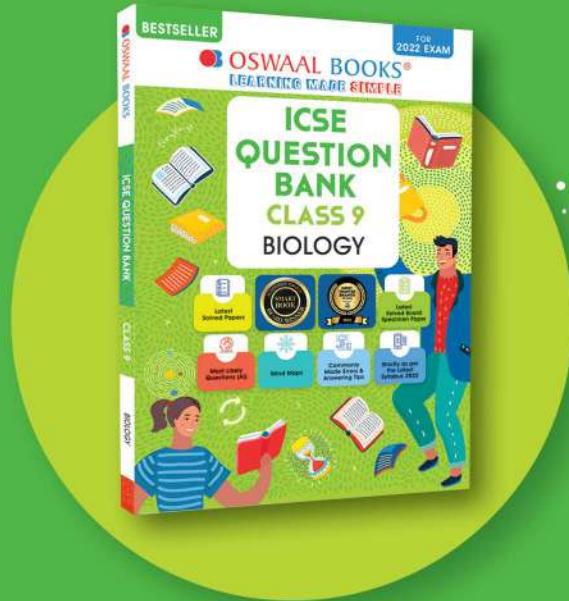


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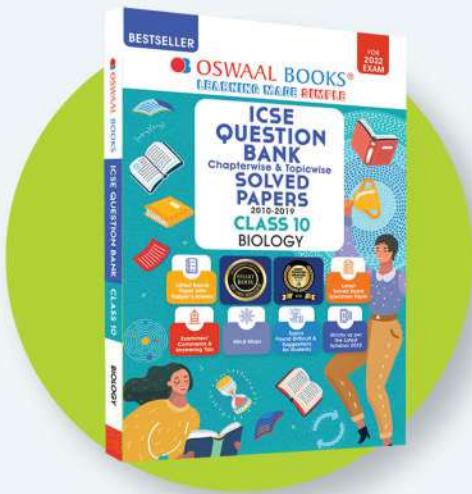
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