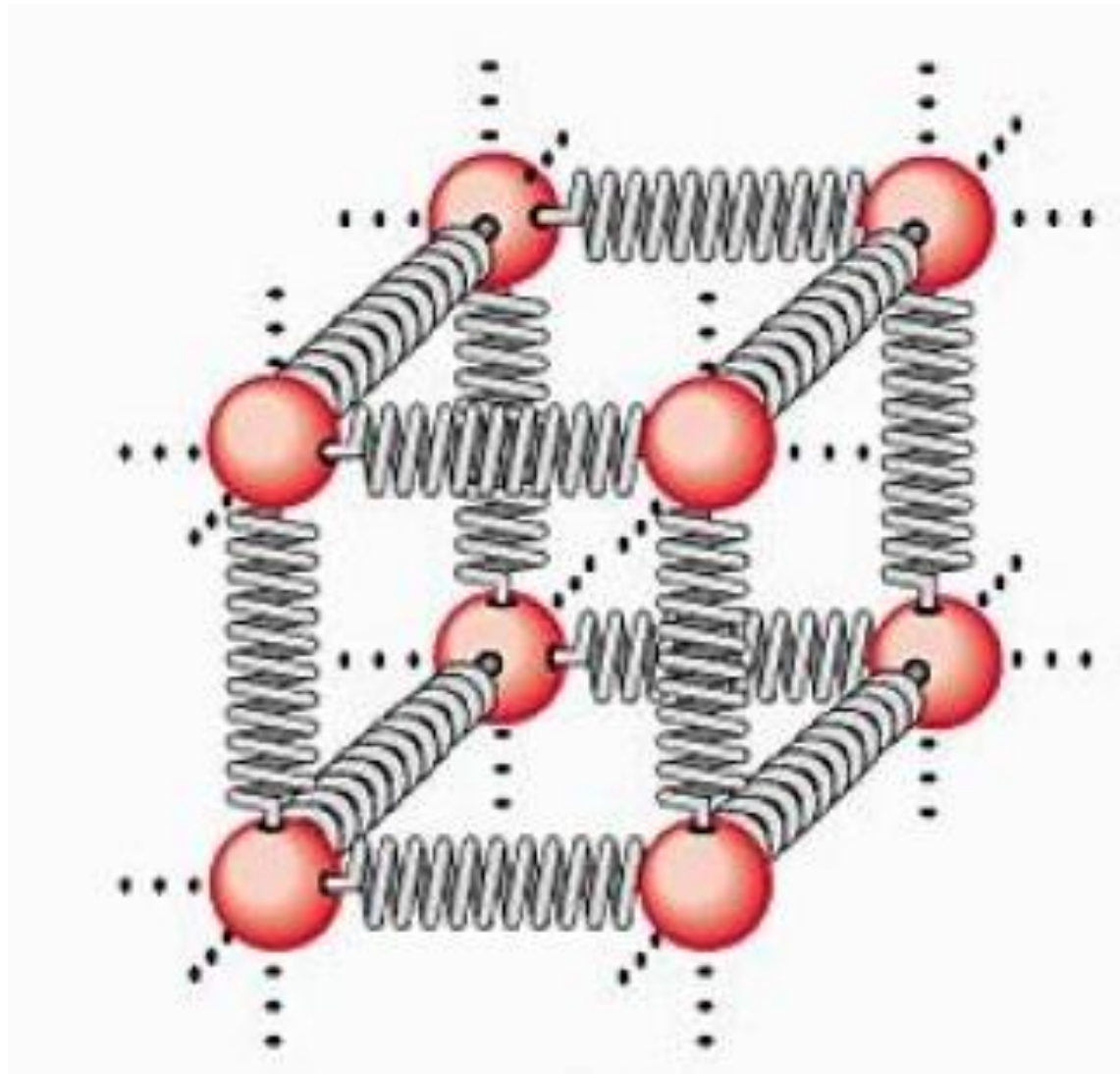


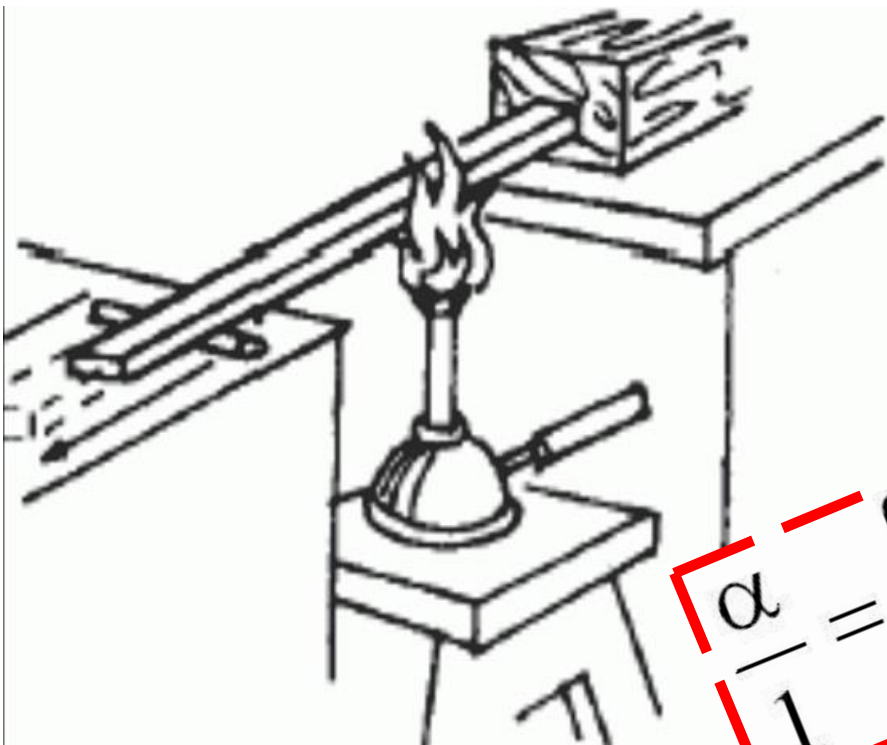
Dilatação dos líquidos

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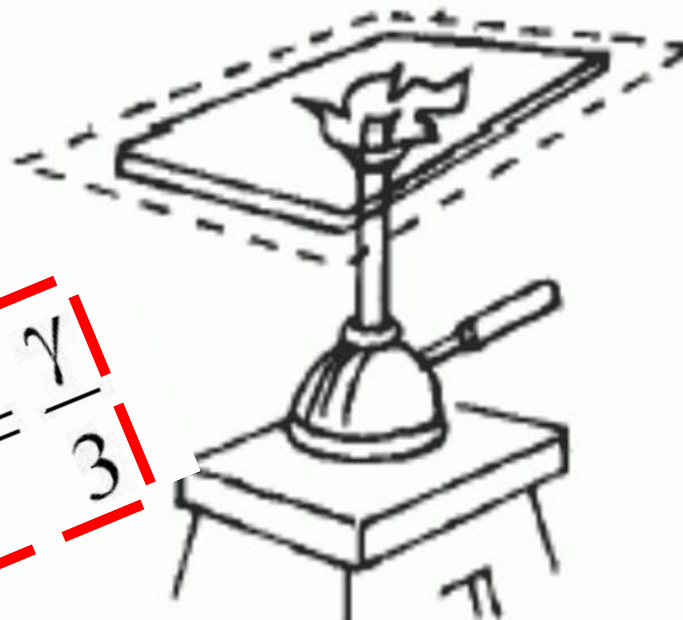


Dilatação dos sólidos

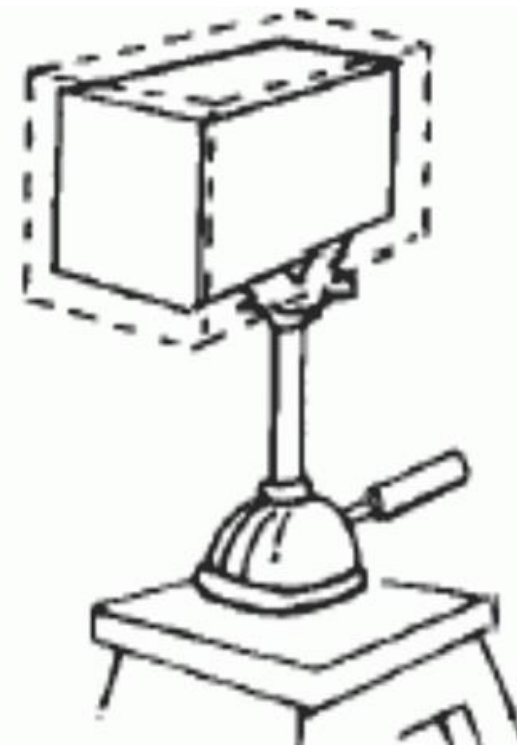


$$\Delta L = L_0 \cdot \alpha \cdot \Delta T$$

$$\frac{\alpha}{1} = \frac{\beta}{2} = \frac{\gamma}{3}$$



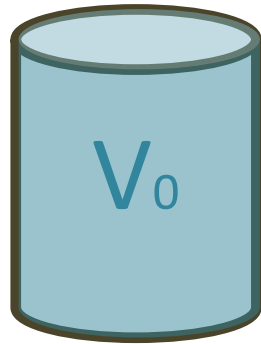
$$\Delta A = A_0 \cdot \beta \cdot \Delta T$$



$$\Delta V = V_0 \cdot \gamma \cdot \Delta T$$

Dilatação dos líquidos

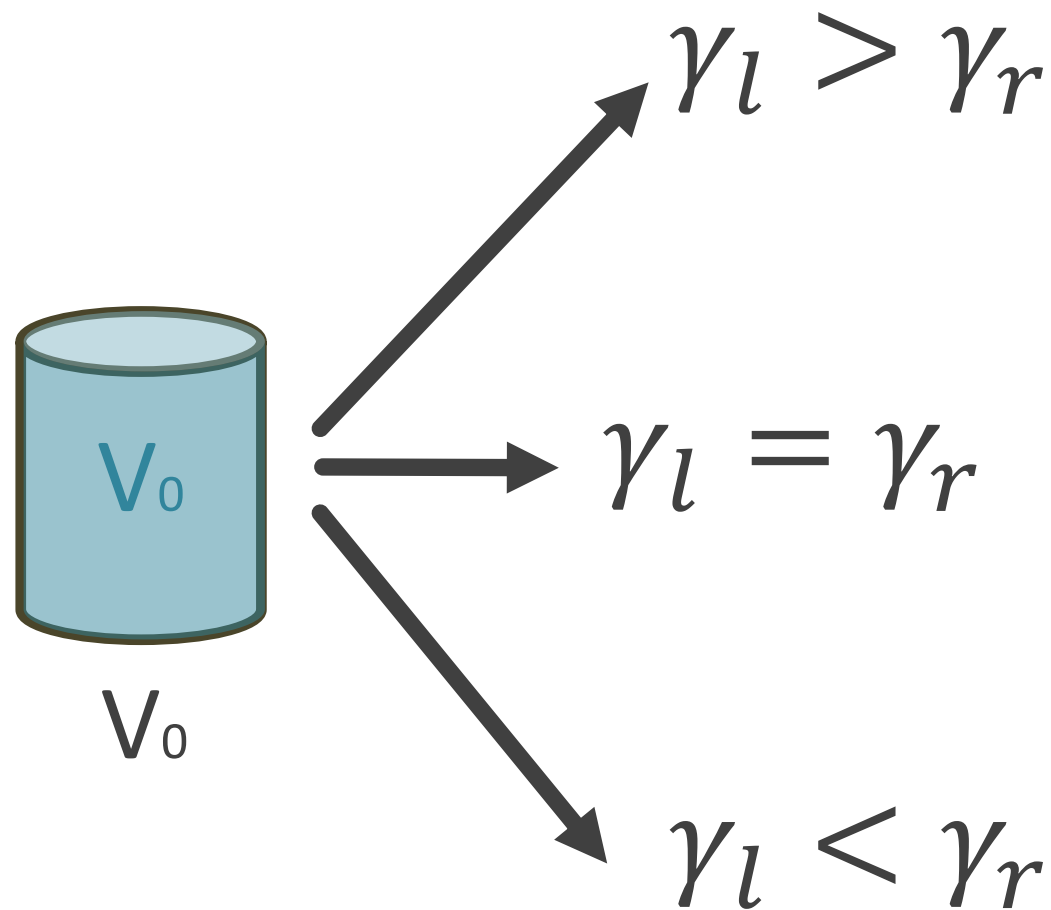
$$\Delta V = V_0 \cdot \gamma \cdot \Delta T$$



V_0

Dilatação dos líquidos

$$\Delta V = V_0 \cdot \gamma \cdot \Delta T$$

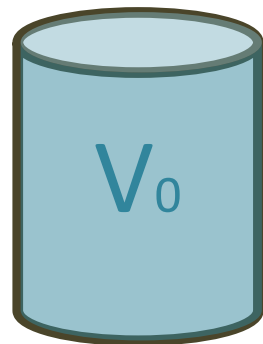


Dilatação dos líquidos

$$\Delta V = V_0 \cdot \gamma \cdot \Delta T$$

Dilatação aparente

$$\Delta V_{\text{ap}} = \Delta V_L - \Delta V_r$$

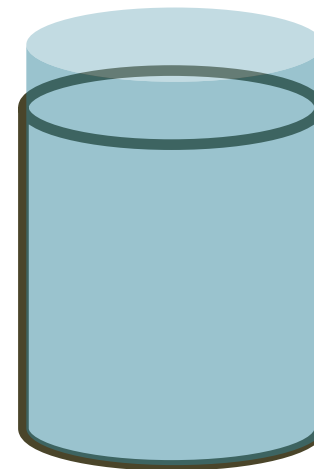


V_0

$\gamma_l > \gamma_r$

$\gamma_l = \gamma_r$

$\gamma_l < \gamma_r$

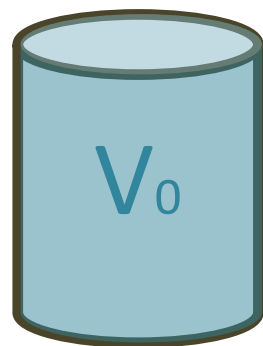


Dilatação dos líquidos

$$\Delta V = V_0 \cdot \gamma \cdot \Delta T$$

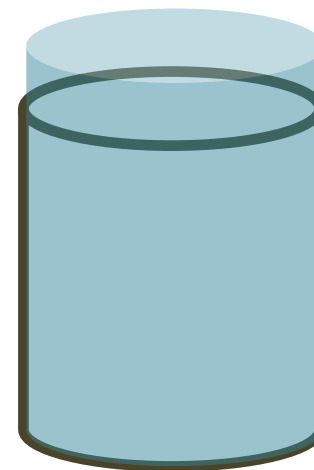
Dilatação aparente

$$\Delta V_{ap} = \Delta V_L - \Delta V_r$$

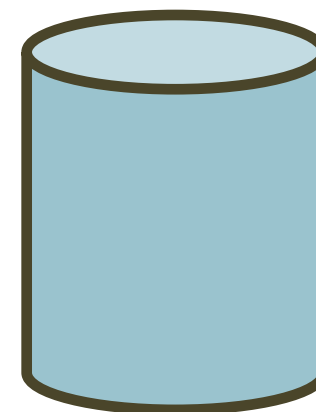


V_0

$\gamma_l > \gamma_r$



$\gamma_l = \gamma_r$



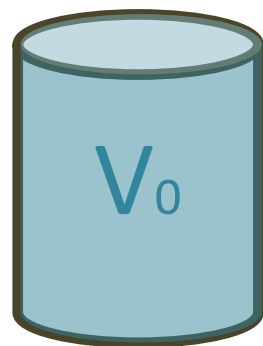
$\gamma_l < \gamma_r$

Dilatação dos líquidos

$$\Delta V = V_0 \cdot \gamma \cdot \Delta T$$

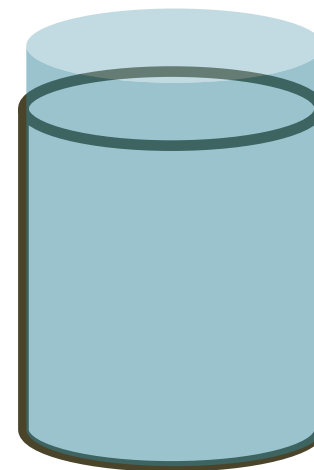
Dilatação aparente

$$\Delta V_{ap} = \Delta V_L - \Delta V_r$$

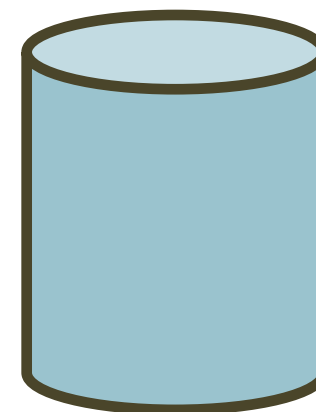


V_0

$$\gamma_l > \gamma_r$$



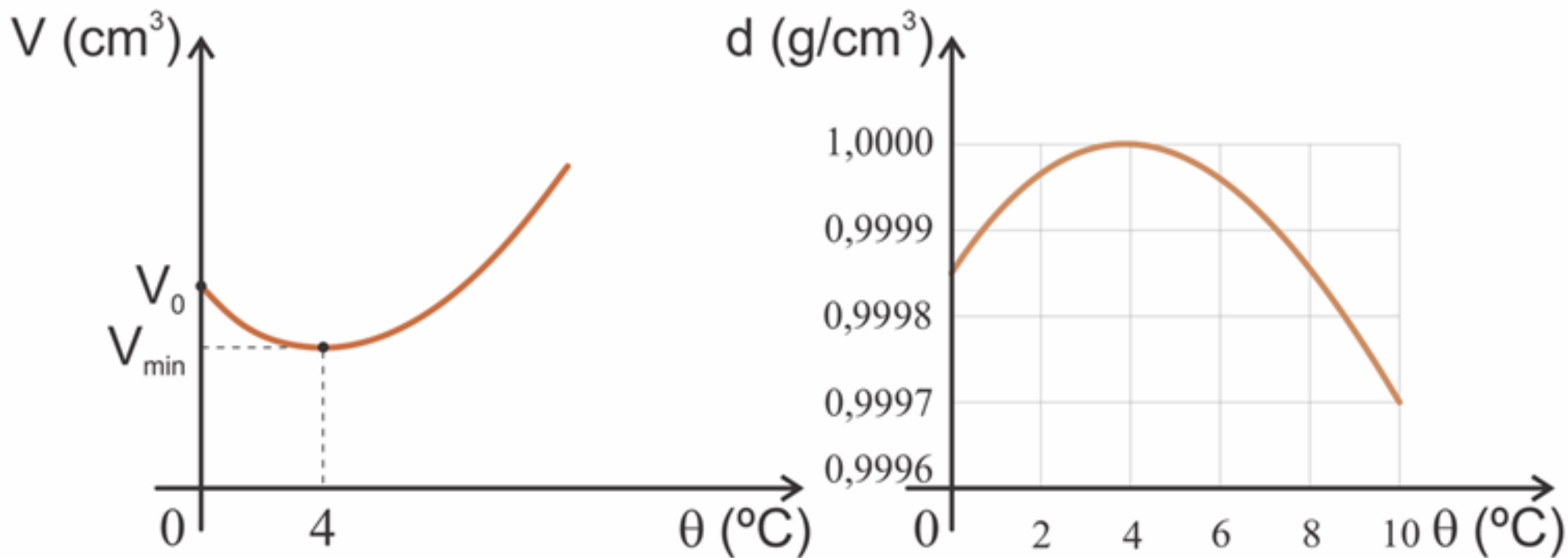
$$\gamma_l = \gamma_r$$



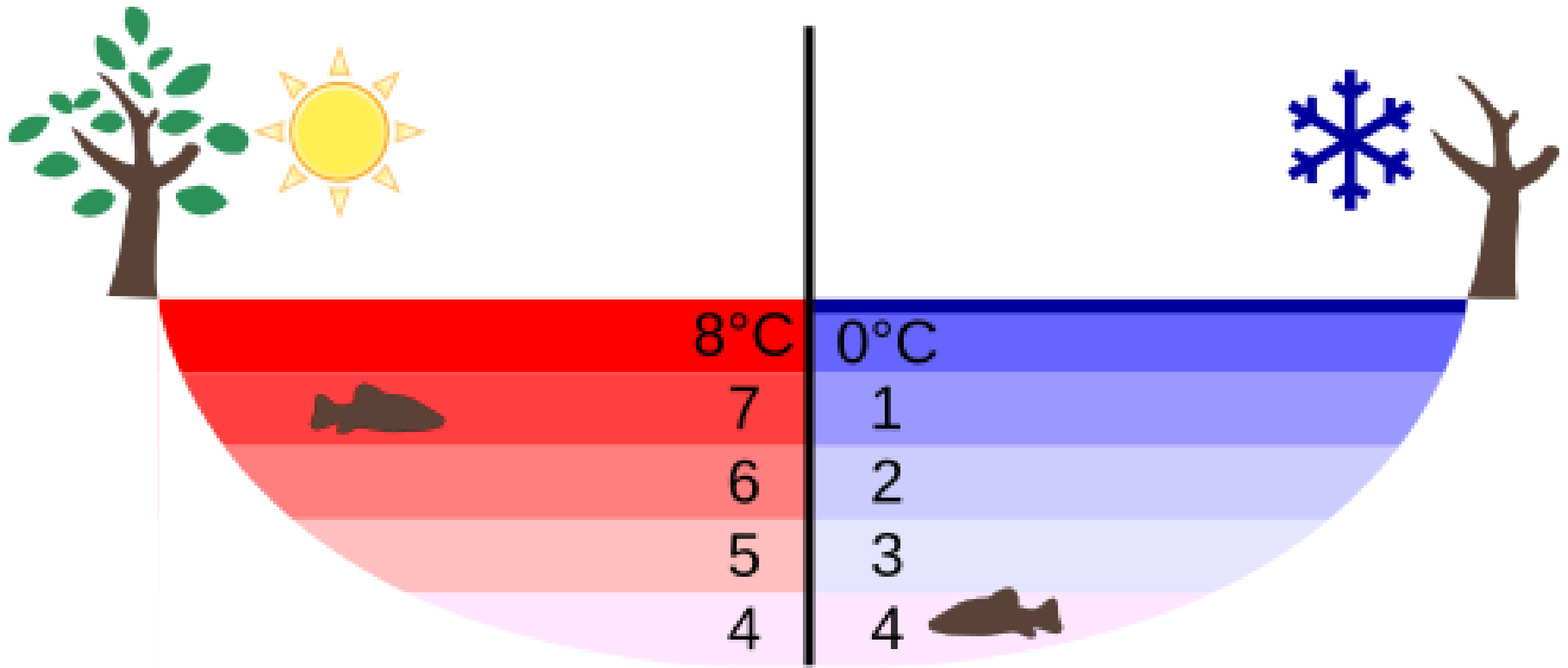
$$\gamma_l < \gamma_r$$



Dilatação anômala da água



Dilatação anômala da água



Dilatação dos líquidos

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Física