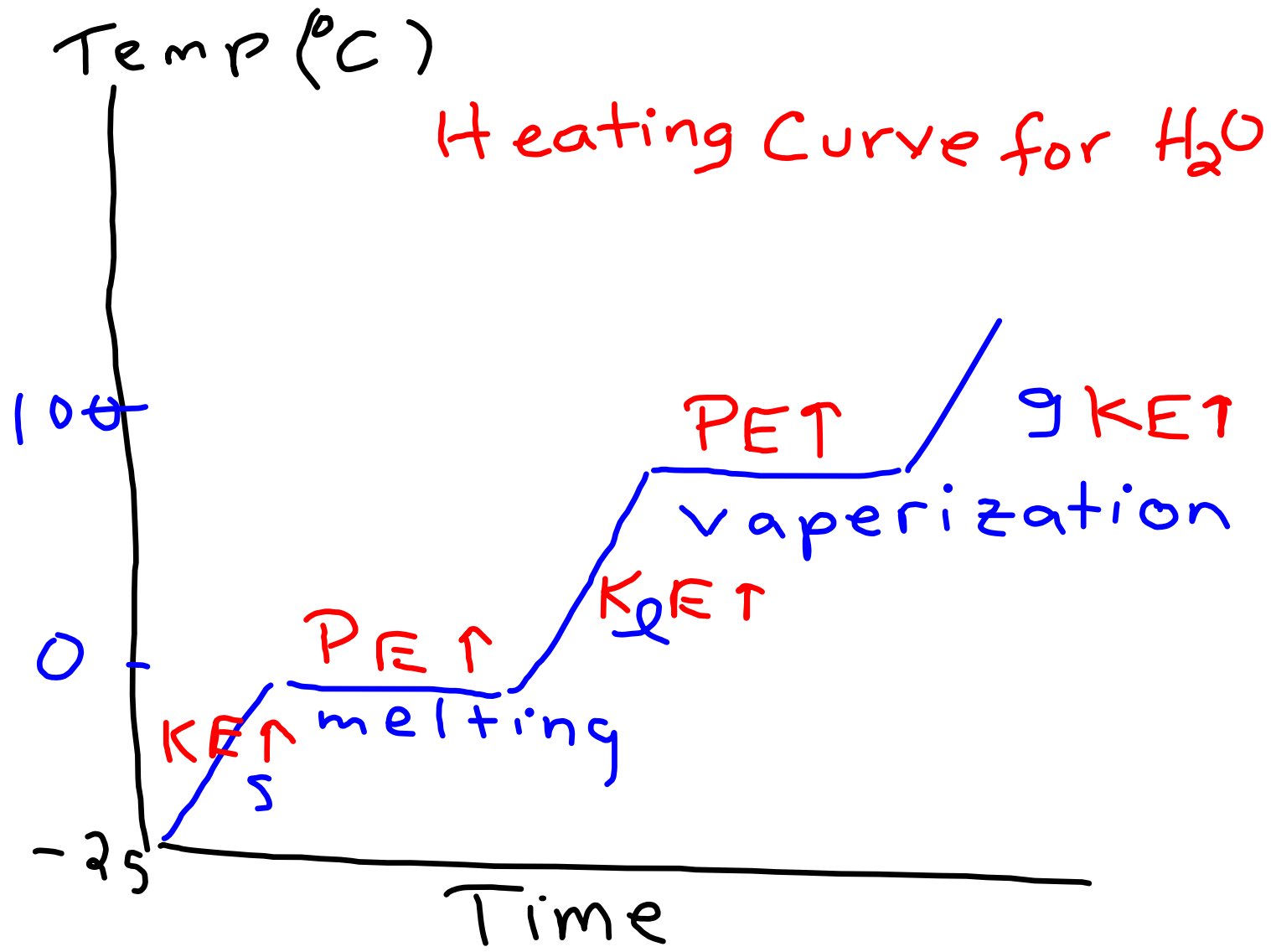
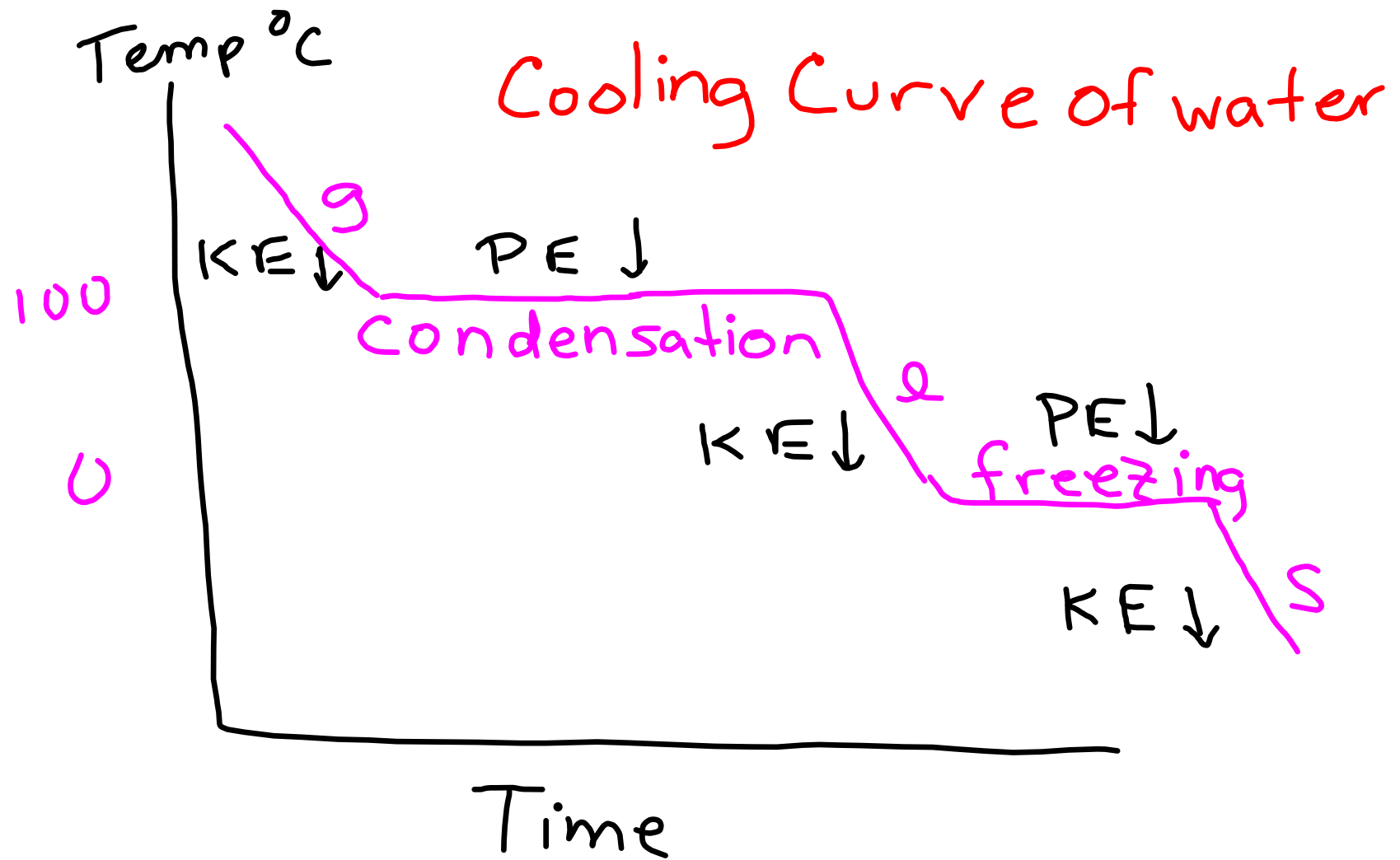




PE stored energy —

KE energy of motion /
increasing or
decreasing in temp. \



Vaporization means
boiling
evaporation

$$q = m H_f$$

↑ cal ↑ (mass)
 g

freezing or melting

$\frac{\text{cal}}{\text{g}}$

$$\text{cal} = \cancel{\text{g}} \left(\frac{\text{cal}}{\cancel{\text{g}}} \right)$$

$$\begin{array}{c} \nearrow \\ \text{cal} \end{array} q = m H_v \begin{array}{c} \nwarrow \\ \text{mass} \end{array} \begin{array}{c} \nwarrow \\ \text{g} \end{array} \frac{\text{cal}}{\text{g}}$$

heat of
vaporization
or
condensation

$$\text{cal} = \cancel{\text{g}} \left(\frac{\text{cal}}{\cancel{\text{g}}} \right)$$