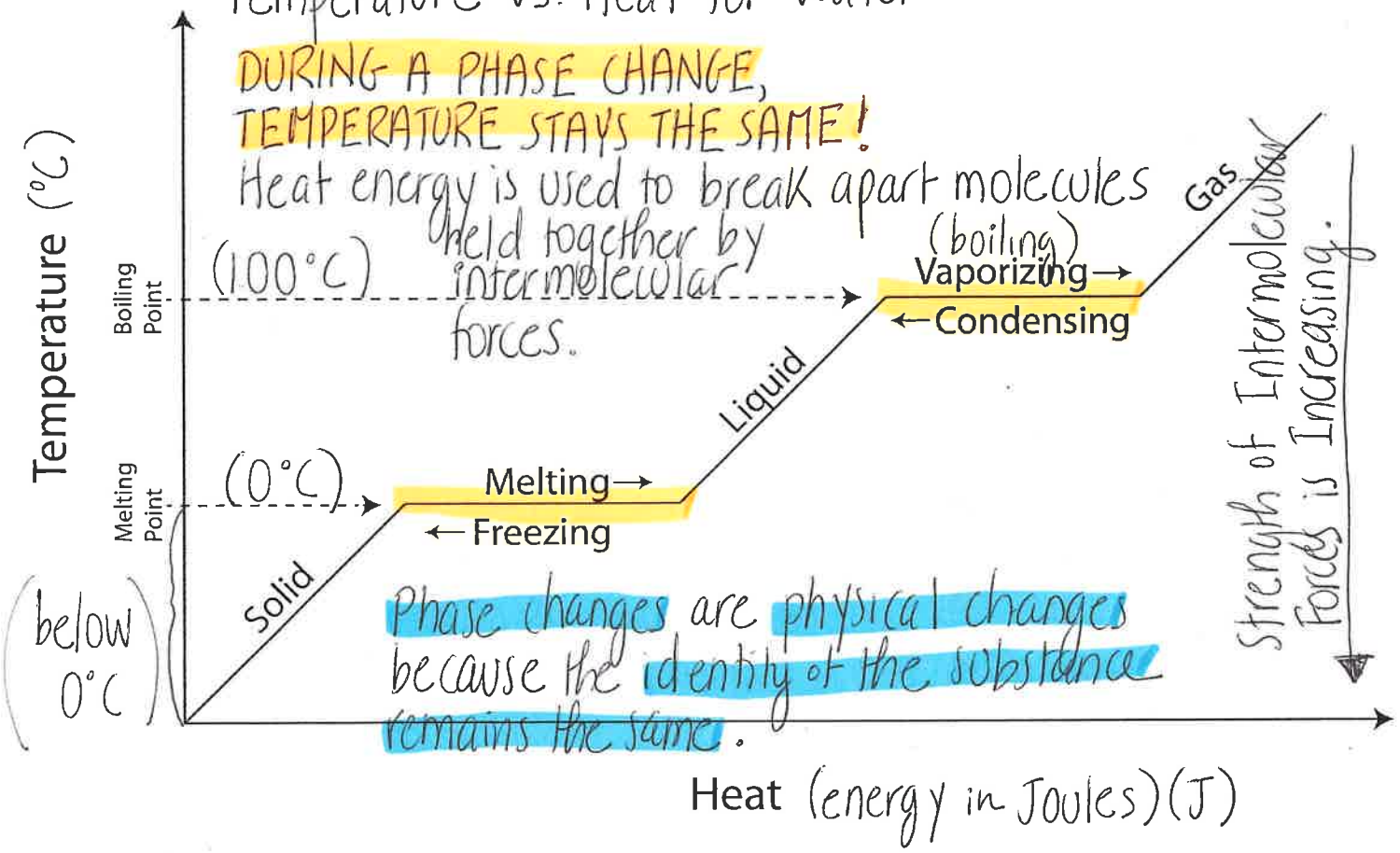
Temperature vs. Heat for Water

DURING A PHASE CHANGE, TEMPERATURE STAYS THE SAME!

Heat energy is used to break apart molecules held together by intermolecular forces.



Phase changes are physical changes because the identity of the substance remains the same.

Temperature Conversions

1) °F → °C

$$\frac{5}{9}(°F - 32) = \_\_\_ °C$$

2) °C → °F

quick conversion
$[(°C) \times 2] + 30 \approx \_\_\_ °F$

$$\left(°C \times \frac{9}{5}\right) + 32 = \_\_\_ °F$$

3) °C → K

$$(°C + 273) = \_\_\_ K$$

4) K → °C

$$(K - 273) = \_\_\_ °C$$