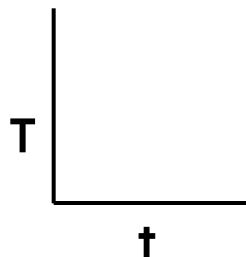


Latent Heat

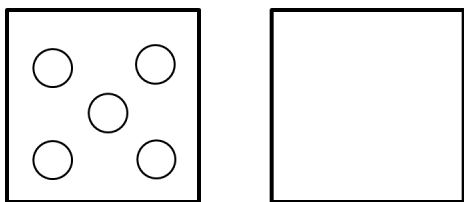
Latent heat refers to the energy required for a _____.

During a change in phase, there is _____ in temperature.

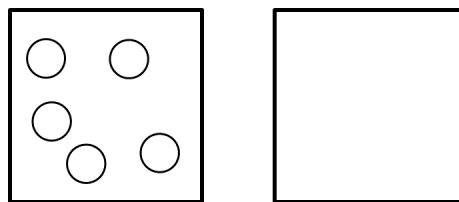
$$H = \frac{q}{m}$$



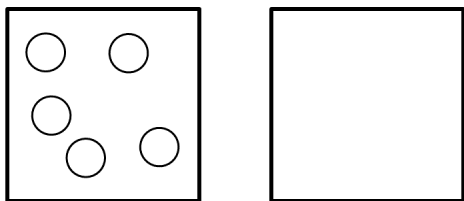
Heat of _____, H_f
The amount of energy required to
_____ 1.0g of solid into liquid.



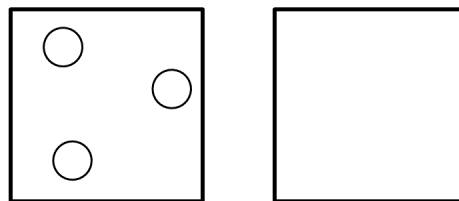
Heat of _____, H_v
The amount of energy needed to
_____ 1.0g of a liquid to a gas.



In reverse, the heat of fusion is also the
amount of energy _____
when 1g of a liquid _____ to a solid.



In reverse, the heat of vaporization is
the amount of energy _____
when 1g of a gas _____ to a
liquid.

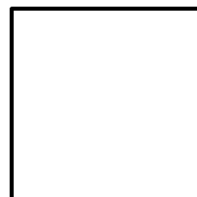
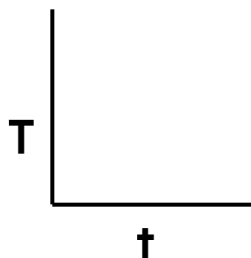


Energy constants for water :

334 J/g Heat of fusion (melting or freezing) H_f

2260 J/g Heat of vaporization (evaporating or condensing) H_v

1) What is the heat in Joules required to melt 25 grams of ice?



2) 33.3 grams of water vapor are condensed. How much energy is released?

