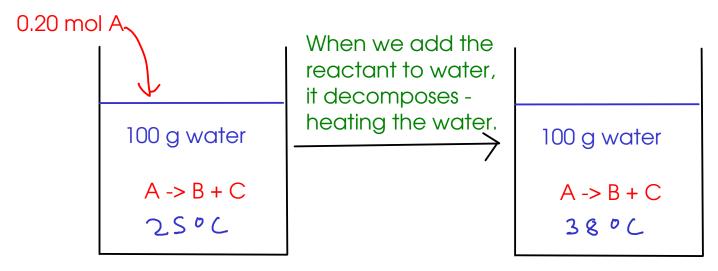
CALORIMETRY

- the measurement of heat. But how do we measure heat?



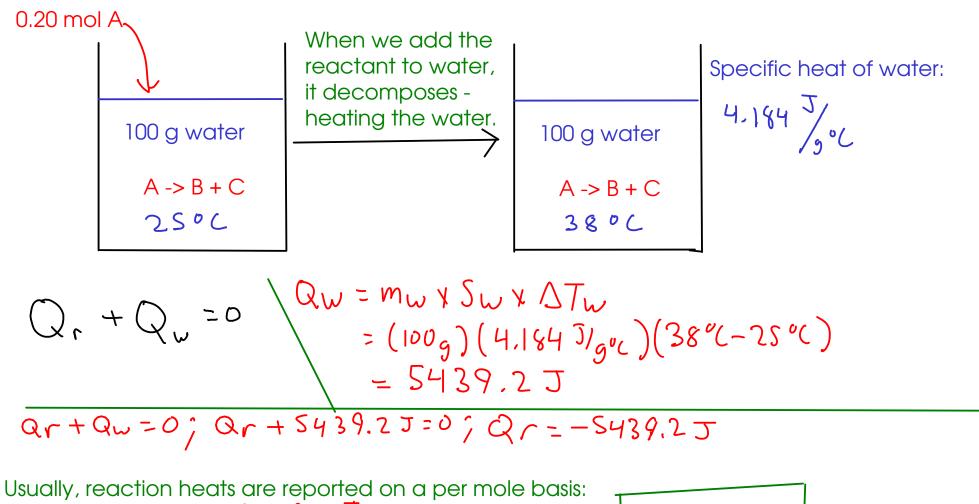
... what is Q for this reaction?

Assuming that no heat is lost from the water to the surrounding air,



... if we knew something about the WATER, we could use that to find the heat of the REACTION!

We can look up the water's SPECIFIC HEAT and use it to relate the temperature change of the water to Q.



$$Q = \frac{Qr}{mol A} = \frac{-5439.2J}{0.20 \, mol A} = -27196 \frac{J}{mol A} = \frac{-27 \, KJ}{mol A}$$

We call these numbers (energy per mole for a reaction) "HEAT OF REACTION"