

# Key

## Thermo Webquest Follow up Q's

- ① heat/energy related chem
- ② total energy is constant  
↳ like conservation of matter
- ③ temp = avg. molecular motion  
heat = total energy - includes  
motion AND amount
- ④ conduction  
convection  
Radiation
- ⑤ convection - water touching egg
- ⑥ radiation
- ⑦  $K = ^\circ C + 273$   
 $K = -15 + 273 = 258 K$
- ⑧ boiling  $100^\circ C$  ( $100 + 273 =$ )  $373 K$   
freezing  $0^\circ C$  ( $0 + 273 =$ )  $273 K$
- ⑨ endo - energy flowing into system  
surrounding loses heat  
  
exo - energy flowing out of system  
surrounding gains heat
- ⑩ lots of examples!



(11) Keep pressure constant so that the enthalpy equals the heat energy, (makes the problems easier!)

(12) Skip

(13) ice pack chemicals reacting makes it ~~cold~~ feel cold. - it is endothermic, it is taking energy from you!

Your body is releasing heat so that is exothermic

(14) from hot to cold.

(15) You don't "cool" the drink down, you heat the ice up!

(16) Would you like to put ice in your drink to transfer the heat from the ~~ice~~ drink to the ice?

or - Would you like ~~it~~ to warm some ice up with your drink

etc...

(17) Skip

