NAME **CHEMISTRY** Energy Content (Before vs. After)

 $\Delta H = \sum H_{products} - \sum H_{reactants}$

he the process Endothermic in terms of the following words(system, surroundings, and universe)

Euniverse = Esystem + Esurrouldim

In this process do we ever measure absolute energy?

No, we use relative energy

What is the difference between ΔH°_{rxn} and ΔH_{rxn} ?

AHO - Runs at STP in Thumsdynamics

What is the difference between ΔH_{rxn} and ΔH_{f}

AHre specific LATM TYPP OF RYM. any Pen CALCULATIONS:

5. In order to determine the change in energy from reactants to products we must calculate the ΔH . What is the formula for calculation of ΔH .

DHREN = ZDHF - ZOHF

6. From the chart in your text complete the following calculations of ΔH.

 $Fe_{(s)} + 3CO_{2(g)} \rightarrow Fe_2O_{3(s)} + 3CO_{(g)}$

O -1179 -824 - 330
b. Calculate ΔH°_{rxn}

+1179 = +25KJ/RXN

c. Is your reaction exothermic or endothermic?

7. $2Mg_{(s)} + O_{2(g)} \rightarrow 2MgO_{(s)}$ a. Balance reaction:

b. Calculate the ΔH°_{rxn}

c. Is your reaction exothermic or endothermic?

MH = -1202 K1/Rx