CHEMICAL ENERGIETICS

Energy release).	Exathermic Reaction
	Mg +2HCl > Mg Ch + H2 @ Heat is lost.
	thermometer will register a rise in tempodure trene the reaction is ear thermoic fall in tempos heat is lest to the surroundings.
	Characteristics at Exathermic Reaction 1.= Heat energy is last to the surroundings 2.= The temperature at the reaction mixture rises 3.= Container may beel warm to touch. 1.= In exathermic reactions the reactions have greater enthalpy or higher energy contents than products. What a enthalpy? It is the total energy or heat content associated with the materials that react.
	Time / mins. Characteristics of Exathermic Penchion L= Heat energy is kent to the surroundings 2= The temperature of the reaction mixture rises 3= Container may beel warm to touch. U= In exathermic reactions the reactions have greater entially or higher energy contents than y What is enthalpy?

What is the symbol for Enthalog?
The symbol is 'H'
U
Mustic Ethologi charge?
What is 6thalpy charge? It is the heat gained or lost at a constant pressore.
wil and Cook
Mare energy atom products
So when reaction occus energy in reactionts
hoog availa is dinew go the samony, ide
Energy in products
What is the symbol for Enthalpy Charge?
ΛH,
P & dieck Impor indicating into indicaying.
How can the Eughaly Grands (OH) be corresponded;
AH a H maduala II I

(entrolpy of products) - (entrolpy of readonts) Unit of entralpy drange = KJ/mol OR KJ/mol 2

 $(H_{4}(g) + 2.02(g) \longrightarrow (0.2(g) + 2160cc)$ Wh = -890 KJ mol⁻¹ regative sign show it is exothermice

Simple energy profite diagram of an excitative reaction: $CH_{Y(Q)} + 2O_{2(Q)} \longrightarrow CO_{2(Q)} + 2H_{Q}(c) \qquad OH = -890 \text{ KJmol}^{-1}$ Enthalogy

Enthalog

(H / K3/mol)

H mochanic Church 2 03(9)

Reachants

An-890

H products

Products:

0

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5. The Leochaus june dienter authority or picher enach conjust you gue brognage

What is Advivation Energy?
It is the minimum energy recoved for the particles to reach when they collid

It is the hunnimum energy needed for the particles to reach when they collide.

The is the hunnimum energy needed for the particles to reach when they collide.

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Note B = Temproduce does not impact Adioation enably

7: It increases the work of a chemical was from poly passering the Hermanian Evendon.

5. It capalites appearance competent is board acquarquent execution execution.



