Unit 7 Class Work

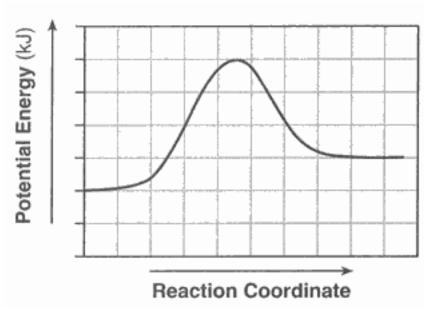
NAME 3/4/14

7.5 Heat of Reaction

SPARK

Draw the energy diagram to the right in your notes and label the

- 1. reactants,
- 2. products,
- 3. activated complex,
- 4. activation energy,
- 5. heat of formation

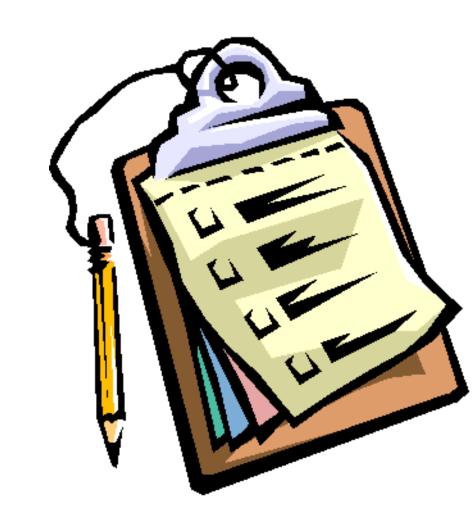


Objective

SWBAT identify and calculate the heat of reaction and activation energy on a potential energy diagram.

Agenda:

- SPARK/Objective
- Notes
- Activity
- Practice
- Homework



Review 7.3 HW

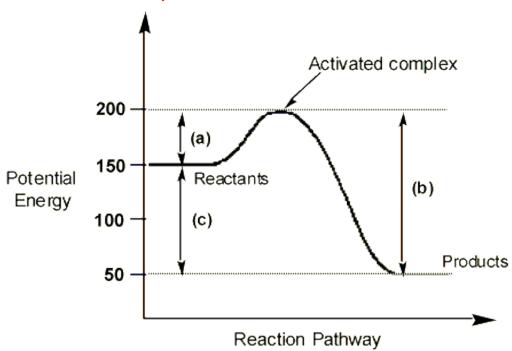
Document Camera

Quiz

- You have ten minutes to complete your quiz!
- When you are finished with your quiz, check your answers to 7.4 with your neighbor!

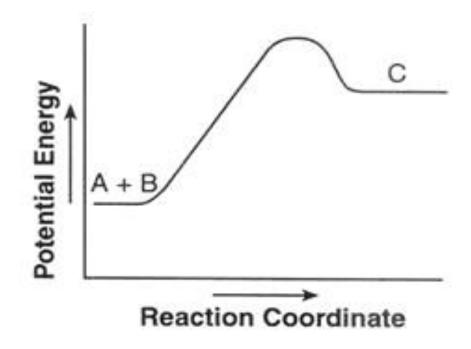
Reminder

- H = heat (potential energy)
- $\Delta H = H_{products} H_{reactants}$



Reminder

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Practice

Practice: State whether enthalpy increases or decreases.

Reaction/ Process	Increase or decrease in enthalpy?
T 1 ' '	
Exothermic reaction	
Melting of ice	
Freezing of water	
Evaporation of water	

Notes-Enthalpy

 We can find the enthalpy of a reaction using Table I

Answer in a complete sentence:

 If ΔH is positive, is the reaction endothermic or exothermic AND which side of the reaction is the heat?

Notes-Enthalpy

 We can find the enthalpy of a reaction using Table I

Answer in a complete sentence:

- If ΔH is positive, is the reaction endothermic or exothermic AND which side of the reaction is the heat?
- Find one example of an exothermic reaction on Table I. Explain how you know it is EXOthermic!

Practice #1 – 8 minutes

 Use Table I to help you complete the first 6 questions on your 7.5 WS

Notes

Use document camera to model enthalpy problems

Exit Ticket

Complete your 7.5 Exit Ticket

HOMEWORK

Finish your worksheet
Complete Unit 7 Flash Cards!
Complete any missing work!