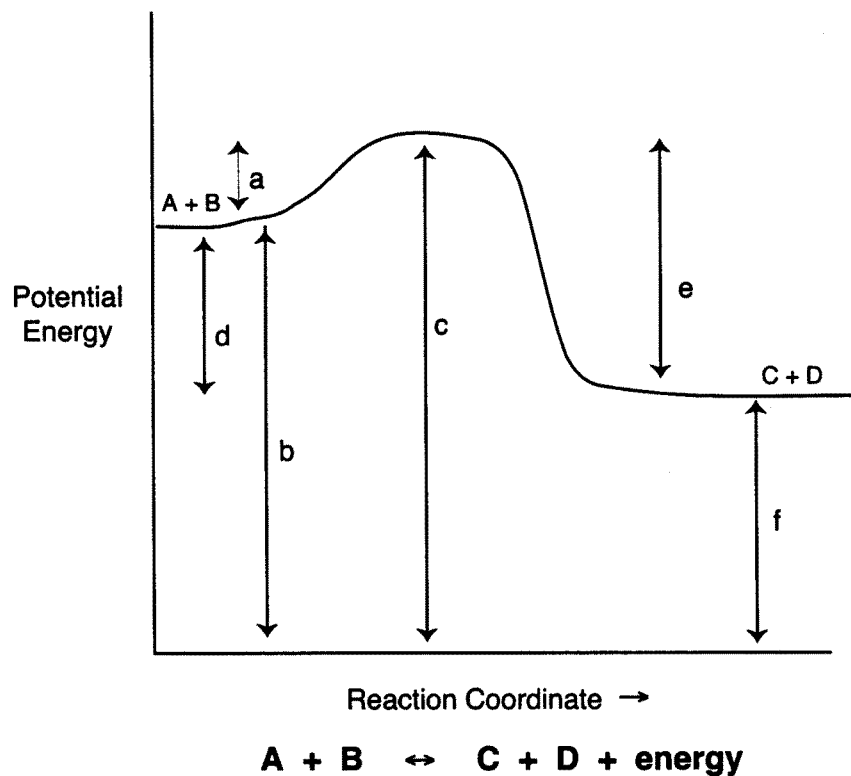


# Unit 5 - Topic 4

Potential Energy and Enthalpy



## Potential Energy Diagram

Answer the questions using the graph above.

- \_\_\_\_\_ Is the above reaction endothermic or exothermic?
- \_\_\_\_\_ What letter represents potential energy of the reactants?
- \_\_\_\_\_ What letter represents the potential energy of the products?
- \_\_\_\_\_ What letter represents the heat of ( $\Delta H$ )?
- \_\_\_\_\_ What letter represents the activation energy of the forward reaction?
- \_\_\_\_\_ What letter represents the activation energy of the reverse reaction?
- \_\_\_\_\_ What letter represents the potential energy of the activated complex?
- \_\_\_\_\_ Is the reverse reaction endothermic or exothermic?
- \_\_\_\_\_ If a catalyst were added, what letter(s) would change?
- On the diagram above, draw a dashed line that would show the effects of a catalyst.