WKS	Name	
Activation Energy and Collision Theory	Period	Date

1) Given the energy diagram below, draw and label arrows for the E_A and the ΔH of the reaction. What is the value of the E_A ?



2) For a particular reaction, the activation energy is 40 kJ/mol and the ΔH is -60 kJ/mol. On the axes below, draw an energy diagram for the reaction. (Make sure to place the reactants at zero kJ/mole)

Draw and label arrows for the activation energy and the ΔH of the reaction.



- 3) The collision theory states that two molecules must collide in order to
- 4) There are two conditions that must be met in order for a collision to be effective. What are they?

- 5) The activation energy of a reaction is the amount of energy needed to
- 6) What is an activated complex and why is it so unstable?