



Chem!stry

Name: ()

Class:

Date: / /

Energy Profiles for Exothermic and Endothermic Reactions

Reagents **W** and **X** react together to form products **Y** and **Z**. On the axis shown below, sketch the energy profile for this reaction assuming that it is **a) exothermic** and **b) endothermic**. On each energy profile you should indicate the activation energy (E_a) as well as the overall enthalpy change for the reaction (ΔH). Finally, illustrate the effect that a *catalyst* has on the energy profile of each reaction.

<p>a) Exothermic Reaction</p> <ul style="list-style-type: none"> • Is energy absorbed from, or released into the surroundings? • Is ΔH for this reaction positive or negative? 	
<p>b) Endothermic Reaction</p> <ul style="list-style-type: none"> • Is energy absorbed from, or released into the surroundings? • Is ΔH for this reaction positive or negative? 	

- Scan the QR Code below for the answers to this assignment.



http://www.chemist.sg/energy_changes/energy_profile_diagram_ans.pdf