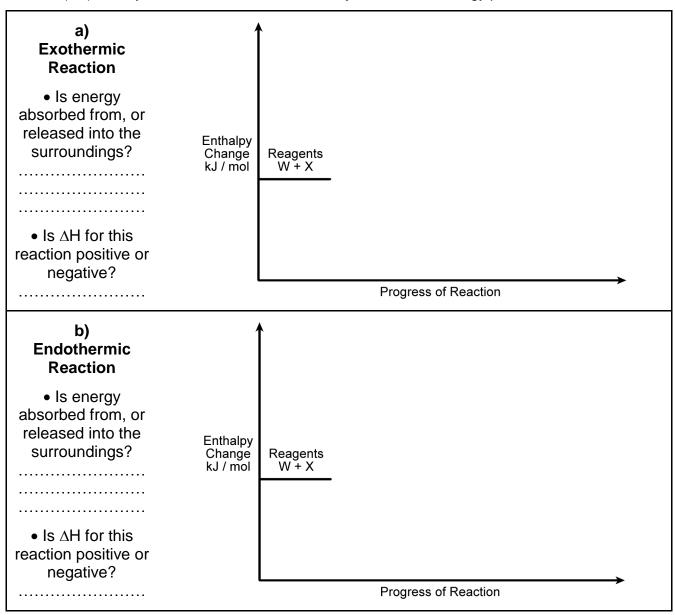


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Energy Profiles for Exothermic and Endothermic Reactions

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 (\mathbf{E}_a) as well as the overall enthalpy change for the reaction ($\Delta \mathbf{H}$). Finally, illustrate the effect that a *catalyst* has on the energy profile of each reaction.



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



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