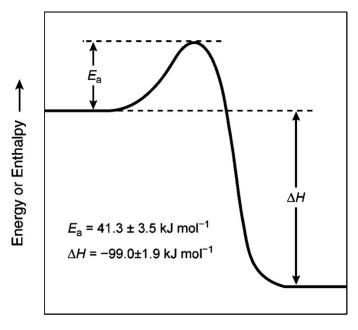


Worksheet

Define the rate of a chemical reaction and write the formula used to calculate it.
Describe the role of a catalyst in a chemical reaction and how it influences the activation
energy.
Write down a balanced chemical equation of decomposition of dilute hydrogen peroxide producing water and oxygen gas in the presence of a catalyst. (Use correct states of matter
producing mater and oxygen gao in the procedure of a catalyst. (Ode correct states of matter

4	List and explain other factors (apart from catalysts) that can affect the rate of a chemical
	reaction.

5 The schematic energy diagram¹ for the decomposition of H₂O₂ catalysed by MnO₂ is given below. From the information provided, identify whether this is an endothermic or exothermic reaction.



Reaction Coordinate ->

Circle your answer:
Endothermic / Exothermic



¹ J. Chem. Educ. 2013, 90, 5, 633-636

6 Draw an energy profile diagram¹ for the decomposition of H₂O₂ without the use of a catalyst. (Draw on top of the provided diagram.)

