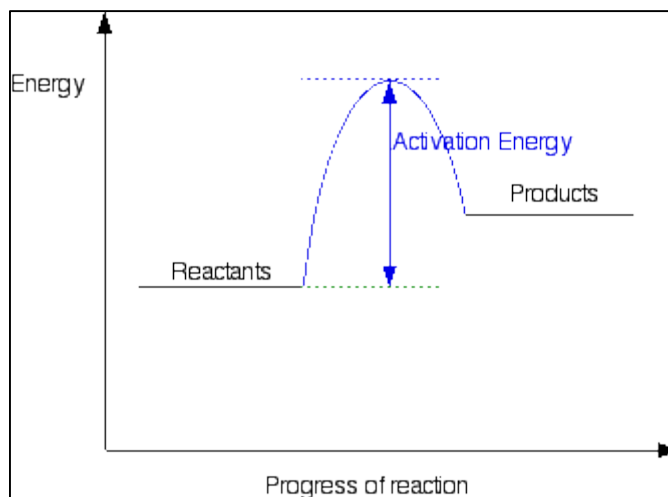


**MINISTRY OF EDUCATION, HERITAGE AND ARTS
YEAR 12 CHEMISTRY
REVISION WORKSHEET 7**

Write the answers to the following questions in your exercise/activity books.

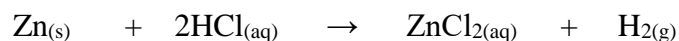
Strand 3: Reactions

1. Study the diagram given below and answer the questions that follow.



Source: <https://www.chemguide.co.uk>

- (i). State if the energy profile diagram shown above is of an endothermic or exothermic reaction. **(1 mark)**
- (ii). Explain your answer in part (i) above. **(2 marks)**
2. The reaction between zinc metal and hydrochloric acid solution gives out heat.



- (i). State the sign of the $\Delta_r H$ for the above reaction? **(1 mark)**
- (ii). Sketch an energy diagram for the reaction.
Note: Label the reactants and products on the diagram. **(4 marks)**

THE END