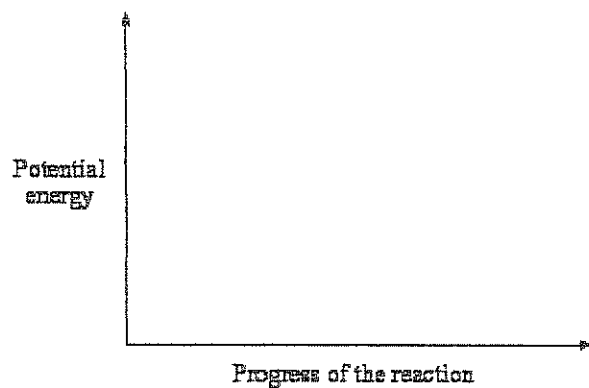


1. Sketch a potential energy diagram for an endothermic reaction in the space below.

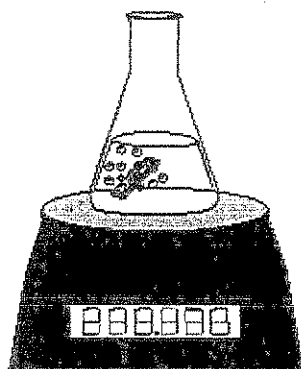
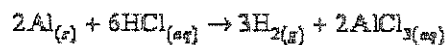
On your diagram, label:

- i) the energy of the activated complex
- ii) the activation energy
- iii) ΔH

(3 marks)



An experiment is done to determine the rate of the following reaction:



The following data are collected:

TIME (s)	MASS OF FLASK PLUS CONTENTS (g)
0.0	270.230
30.0	270.200
60.0	270.170

Calculate the rate of consumption of Al in mol/min.

(3 marks)