

GCSE Chemistry A (Gateway Science)

J248/01 Chemistry A C1-C3 and C7 (Foundation Tier)

Question Set 14

1 A student investigates the energy changes during some chemical reactions.

She measures the temperature at the start and end of each reaction.

Look at her results.

Reaction	Temperature at start (°C)	Temperature at end (°C)	Temperature change (°C)	Type of reaction
A	20	25	Exothermic
B	18	10
C	21	35
D	20	20	No reaction

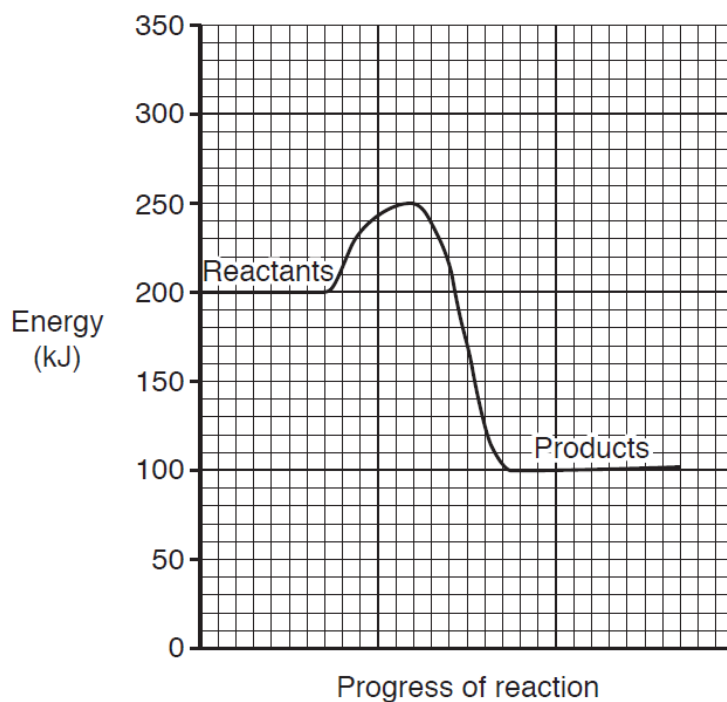
(a) Complete the table.

[3]

(b) Which reaction has the largest energy change?

Answer = [1]

(c) Look at the reaction profile for reaction A.



(i) Calculate the energy change in this reaction.

Answer = kJ [1]

(ii) Calculate the activation energy.

Answer = kJ [1]

Total Marks for Question Set 14: 6



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