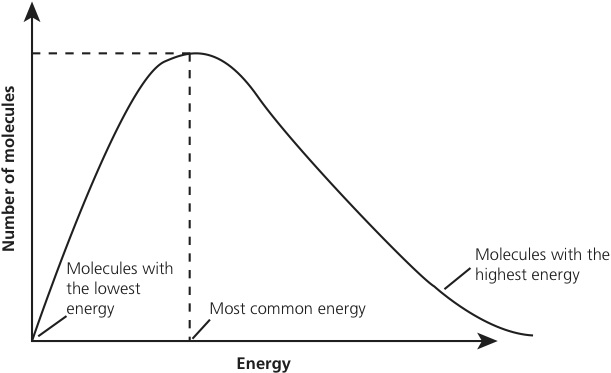
AQA AS/A-level Year 1 Chemistry exam practice answers

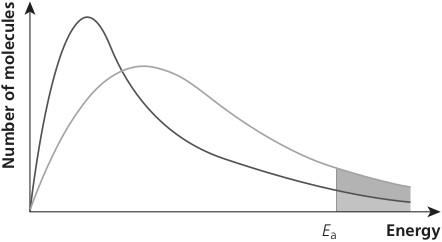
**5 Kinetics**

**1 (a)** The minimum energy required for reaction to take place [1]

**(b)**  [1] for each labelling point

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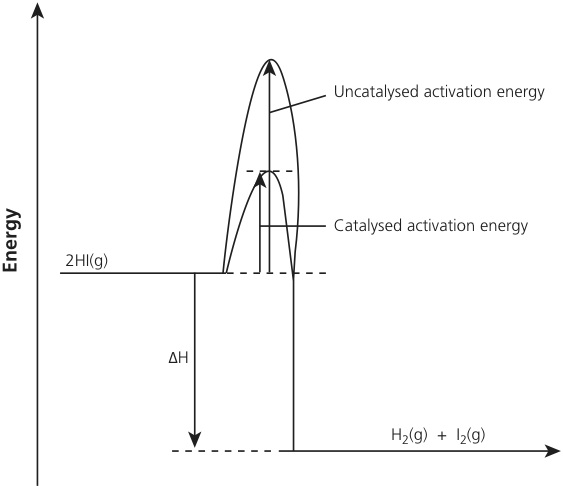
**(c)**



Highest point on curve is lower [1]; distribution moves to the right [1]

**(d)** As temperature increases, more particles have energy greater than the activation energy [1]; approximately double the area beyond the activation energy with the higher temperature graph [1]

**2 (a)**

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**(b)** *E*a uncatalysed = 52 + 183 = 235 kJ mol−1 [1]

*E*a catalysed = 52 + 105 = 157 kJ mol−1 [1]

**(c)** More particles per unit volume [1]; more effective collisions taking place per unit   
time [1]

**3** C

**4** A