

Question 15 (Answer: C)

- Endothermic means the products finish *higher* than the reactants overall.
- Two steps means two humps with an intermediate dip between them.
- The faster second step has the smaller activation energy, so the second hump must be the lower one, measured from the intermediate.

Question 15 (Answer: B)

- Raising the temperature does not change the activation energy – that belongs to the reaction pathway.
- It shifts the Boltzmann distribution, so a larger fraction of particles have energy at or above E_a .
- More particles over the barrier means more successful collisions per second, so all three statements are true.