

ACTIVATION ENERGY

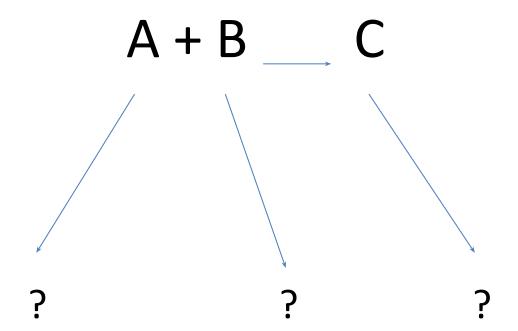
- Ea -what it actually is
- How is it related to temperature
- Catalysts and how they affect Ea

Off the top of your head answer the following question in the back of your books:

Q. Define what activation energy is. (2marks)

LLO's for today:

- All should be able to explain how temperature affects the rate of a chemical reaction in terms of collision frequency and the impact on collision. Grade B
- All should be able to define what a catalyst is.
 Grade D
- Most should be able to explain how a catalyst works by lowering Ea. Grade A
- Some will understand that bonds must be broken before new bonds can be formed. Grade A/A*



- A+B must break their existing bonds before they can form their new bonds in C (as the product).
- If they have the minimum amount of energy required to do this, then they possess the? ANSWER
- If they have energies greater than Ea? ANSWER
- If they have energies less than Ea? ANSWER

Yesterday's Extension Question Maxwell-Boltzmann Distribution

The affect of a catalyst on Ea and hence a chemical reaction in general-