

# OCR (B) Chemistry A-Level

## DF4 - Kinetics

### Flashcards

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# What is a catalyst?



## What is a catalyst?

A catalyst is a species that is not used up in the reaction, and helps to increase the rate of reaction by offering a different pathway for the reaction to take.



# What is a catalyst poison?



# What is a catalyst poison?

A substance that reduces the effectiveness of the catalyst by permanently bonding to the active sites.



# What does heterogeneous mean?



## What does heterogeneous mean?

A heterogeneous catalyst is one that does not share the same phase as the reactants. For example the solid iron catalyst in the gaseous reaction of hydrogen and nitrogen.



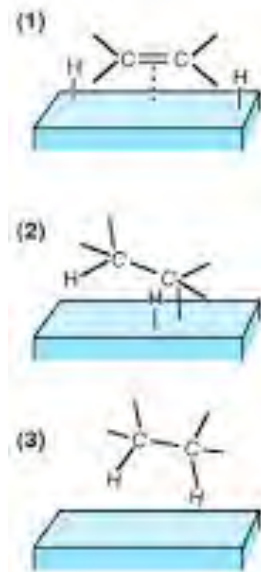
# What does the heterogeneous catalyst look like?





# What does a heterogeneous catalyst look like?

The reactants form partial bonds with the catalyst, adsorbing onto the surface, because the reactants are in close proximity, successful collisions are more frequent.



# What is cracking?



# What is cracking?

Cracking is the breaking of long chain alkanes into shorter chain alkanes and alkenes.

