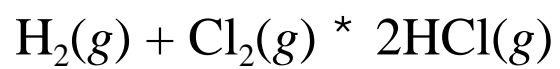




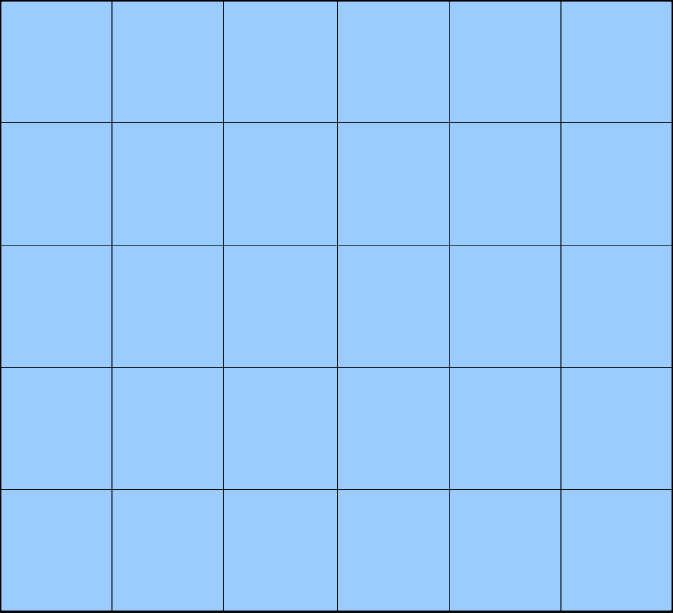
## **Example of a Simple Reaction and Its Proposed Mechanism**



## **Defining *Rate***

*Rate* for a chemical reaction can be defined in terms of the change in concentration (or amount) of reactants or products with time.

Ideally, for any point in the course of the reaction,  
*Rate*





/ [NO]







*Rate*





## **Initial *Rate***

Because rate changes over time, comparisons between reaction rates need to be made at the same elapsed time.

For convenience, comparisons are often made between *initial rates*, taken at the very beginning of the reaction ( $t = 0$ ).

# Differential Rate Law





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