

### Reaction Rate

↳ Change in reactants/products' concentration over time

### Factors That Increase Reaction Rate

↳ Surface area

↳ Concentration

↳ Pressure

↳ Temperature

↳ Catalysts

### Increasing Above Factors Also Increases...

↳ Collision frequency

↳ Successful collisions amount

### Temperature Increase Also Increases...

↳ Collision energy

### Experiment Methods To Measure Reaction Rate

↳ Mass loss

↳ Gas volume made

↳ Colour change

↳ Concentration changes

↳ pH change

### Catalysts

↳ Provides an alternative reaction pathway with lower activation energy

↳ Speeds up reaction & isn't used up

↳ Causes more particle collisions

#### Heterogenous Catalysts

↳ Has different state to reactants & products

#### Homogenous Catalysts

↳ Has same state as reactants & products

### Transition State

↳ Unstable state

↳ Reactants' bonds broken & products' bonds forming

↳ Triggered by activation energy

### Collision Theory

↳ Particle collision affects chemical reaction rates

### Collision Requirements Of Reactant Particles

↳ Collision with each other

↳ Collision with enough energy

↳ Collision in the right direction

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