

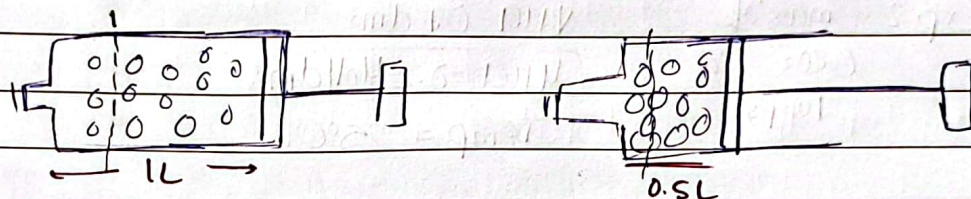
④ pressure: "only affect the gas"

- Explain how the pressure affect the rate of reaction

As the pressure increases by reducing the volume.

so more particles per unit volume, so more effective collisions per unit-time.

so faster rate of reaction.



$$\frac{10 \text{ particles}}{1 \text{ L}} = 10$$

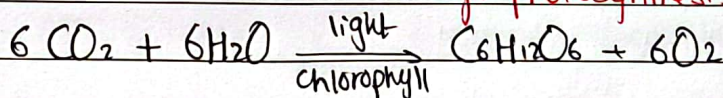
$$\frac{10 \text{ particles}}{0.5 \text{ L}} = 20$$

⑤ light: "only for photochemical reaction"

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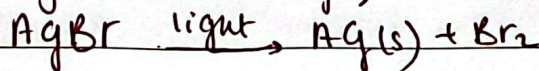
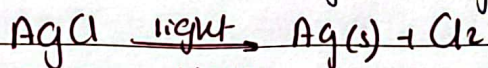
reaction that need light to occur

eg: photosynthesis



\* photographic films

⇒ films coated with AgCl or AgBr



⑥ Catalyst:

chemical substance that speeds up the reaction without being used up.

How? it provides an alternative way

with lower  $E_a$

so more particles will have energy equal

to or more  $E_a$

so more effective collisions per unit time.

so faster rate of rxn.