

RATE OF A REACTION

FOR A REACTION



$$\text{RATE OF DISAPPEARANCE} = - \left(\frac{\text{CHANGE IN CONCENTRATION OF R}}{\text{TIME TAKEN}} \right)$$

$$\text{RATE OF APPEARANCE} = + \left(\frac{\text{CHANGE IN CONCENTRATION OF P}}{\text{TIME TAKEN}} \right)$$

$$\text{RATE OF REACTION} = - \left(\frac{\text{CHANGE IN CONCENTRATION OF R}}{\text{TIME TAKEN}} \right) = + \left(\frac{\text{CHANGE IN CONCENTRATION OF P}}{\text{TIME TAKEN}} \right)$$

OR

$$\text{RATE OF REACTION} = \frac{-\Delta[\text{R}]}{\Delta t} = \frac{+\Delta[\text{P}]}{\Delta t}$$