

For the reverse reaction?

decreased the  $E_a(r)$

- q) What effect did the catalyst have on the  $\Delta H$  of the forward reaction? no effect

The reverse reaction?

no effect

12. Name four instances in which *catalysts* are used in industry or everyday life and tell which *catalysts* are used.

$V_2O_5$  used in making sulphuric acid (step  $2SO_2 + O_2 \xrightarrow{V_2O_5} 2SO_3$ )

maltase breaks down maltose to simple sugar (glucose)

nickel used to hydrogenate unsaturated fats

Pt, Pd, Rh used in catalytic converters to break down  $NO_2$  in exhaust

13. Describe what happens to the *kinetic energy*, *potential energy* and the *total energy* of reactant molecules as they approach each other.

KE decreases PE increases TE remains constant.

14. Explain why a lower *activation energy* for a reaction leads to a greater reaction rate at a given temperature.

molecular collisions don't require as high an energy to be successful so at a particular temp. a greater fraction of the molecules will have enough energy.

15. A small piece of zinc react with 2.0 M HCl to produce 12.0 mL of  $H_2$  gas in 30.0 seconds. Calculate the *rate of reaction*

a) In mL of  $H_2$ /second  $\frac{12.0 \text{ mL } H_2}{30.0 \text{ s}} = 0.400 \text{ mL } H_2/\text{s}$

Answer  $0.400 \text{ mL } H_2/\text{s}$

b) In moles of  $H_2$ /second

$$\frac{0.400 \text{ mL } H_2}{\text{s}} \times \frac{1 \text{ L}}{1000 \text{ mL}} \times \frac{1 \text{ mol}}{22.4 \text{ L}} = 1.79 \times 10^{-5} \text{ mol } H_2/\text{s}$$

Answer  $1.79 \times 10^{-5} \text{ mol } H_2/\text{s}$

# Modeling Chemistry U8 Ws 1 V2 0 Key

**S Ben Porath**



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