



Rates of Reaction Worksheet

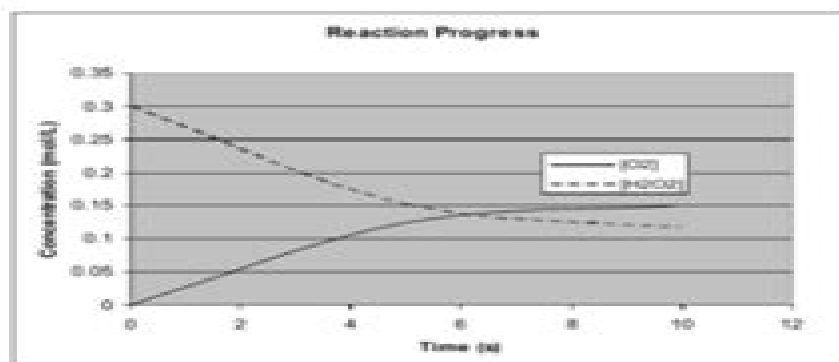
- What are the five most common ways to determine reaction rates?
- Solid phosphorus and oxygen gas react to form tetraphosphorus decoxide. Determine the average rate of reaction for oxygen during the first 40 s if the concentration changes from 0.200 mol/L to 0.000 mol/L during this time interval.
- At 40°C, hydrogen chloride gas will form from the reaction of gaseous hydrogen and chlorine, according to the following balanced chemical equation: $\text{H}_2(\text{g}) + \text{Cl}_2(\text{g}) \rightarrow 2 \text{HCl}(\text{g})$. Using the data provided, calculate the following average rates:

Time (s)	Concentration (mol/L)		
	$\text{H}_2(\text{g})$	$\text{Cl}_2(\text{g})$	$\text{HCl}(\text{g})$
0	1.000	1.000	0.000
2.16	0.500	0.500	1.000
4.32	0.250	0.250	1.500

- disappearance of hydrogen gas in the first 2.16 s. (0.231 mol/L.s)
- appearance of hydrogen chloride gas in the first 4.32 s (0.347 mol/L.s)
- disappearance of chlorine gas between 2.16 s and 4.32 s (0.116 mol/L.s)
- disappearance of hydrogen gas in the first 4.32 s (0.174 mol/L.s)

- Hydrogen peroxide in aqueous solution will decompose to produce oxygen gas and water. Use the graph to the right to:

- calculate the average reaction rate for the appearance of oxygen gas between 5 s and 10 s.
- calculate the average reaction rate of disappearance of hydrogen peroxide between 0 s and 5 s.
- calculate the instantaneous rate of appearance of oxygen gas at 4 s.



- Ammonia gas and oxygen gas react to form nitric oxide and water vapour. The instantaneous rate of consumption of ammonia is 2.0×10^{-2} mol/L at 10 s.
 - Write and balance the chemical equation.
 - Determine the instantaneous rate of oxygen gas consumption at 10 s. (2.2×10^{-2} mol/L.s)
 - Determine the instantaneous rate of water vapour appearance at 10 s. (2.7×10^{-2} mol/L.s)
- The chemical reaction represented by the following balanced chemical equation takes place in aqueous solution: $\text{MnO}_4^- (\text{aq}) + 5 \text{Fe}^{2+} (\text{aq}) + 8 \text{H}^+ (\text{aq}) \rightarrow \text{Mn}^{2+} (\text{aq}) + 5 \text{Fe}^{3+} (\text{aq}) + 4 \text{H}_2\text{O} (\text{l})$. When the disappearance of the permanganate ion, $\text{MnO}_4^- (\text{aq})$, is monitored, the rate of reaction for the consumption of the ion is 4.0×10^{-2} mol/L.s. Calculate the reaction rate for all other reactants and products. (Fe^{2+} : 0.20 mol/L.s, H^+ : 0.32 mol/L.s, Mn^{2+} : 0.040 mol/L.s, Fe^{3+} : 0.20 mol/L.s, H_2O : 0.16 mol/L.s)
- One mole of aqueous sulfuric acid reacts with 2 mol of aqueous sodium hydrogen carbonate in an acid-base reaction.
 - Write a balanced chemical equation.
 - If 0.038 mol sodium hydrogen carbonate reacts in 20 s, calculate the average reaction rate as:
 - Grams of sodium hydrogen carbonate consumed per second. (0.16 g/s)
 - Moles of sulfuric acid consumed per second. (9.5×10^{-4} mol/s)
 - Moles of carbon dioxide gas formed per second. (1.9×10^{-3} mol/s)

Lesson 36 Reaction Rates Answer

G Psacharopoulos



Lesson 36 Reaction Rates Answer:

Lesson 36 Reaction Rates Answer: Bestsellers in 2023 The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous engrossing novels captivating the hearts of readers worldwide. Lets delve into the realm of top-selling books, exploring the captivating narratives that have enthralled audiences this year. Lesson 36 Reaction Rates Answer : Colleen Hoover's "It Ends with Us" This poignant tale of love, loss, and resilience has gripped readers with its raw and emotional exploration of domestic abuse. Hoover expertly weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can succeed. Uncover the Best : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This intriguing historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids captivating storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Lesson 36 Reaction Rates Answer : Delia Owens "Where the Crawdads Sing" This mesmerizing coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens crafts a tale of resilience, survival, and the transformative power of nature, entrancing readers with its evocative prose and mesmerizing setting. These top-selling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of compelling stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a exceptional and suspenseful novel that will keep you wondering until the very end. The novel is a cautionary tale about the dangers of obsession and the power of evil.

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