

Solution Formation Lab

NAME: _____

DATE: _____

PERIOD: _____

Background

A solution contains a compound of a solute and a solvent. The solute is the substance that gets dissolved and the solvent is the substance that dissolves the solute. Solutions can be formed by mixing solids, liquids, and gases in various combinations. For example, air is a solution of gas particles, rubbing alcohol is a solution of liquids and others are solutions of solids.

Solute	Solvent	Solution	Example
solid	solid	solid	iron
liquid	liquid	liquid	brass (copper/zinc)
solid	solid	solid	steel
solid	liquid	liquid	common household
solid	liquid	liquid	brine solution

Some solid solutes become more soluble in solvents as a temperature rises. Some solid solutes become less soluble as a temperature rises. This means that in order to dissolve higher amounts of certain solutes you'll need lower temperatures. The solubility of a solid salt rises with the temperature of the solvent. For many solids, increasing the temperature of the liquid solvent increases the amount of salt that will dissolve. However, this is not true for all salts.

Procedure & Observations

- Obtain 3 small beakers (100mL) and fill each to the 50mL mark of the following boiling water, tap water and tap water.
- Predict what will happen to each beaker if you add sodium chloride (NaCl) solution. What will happen if you add sodium chloride?
- Place one drop of food coloring into each beaker. Observe the solution. Observe the movement of the food coloring through the water.

Beaker	Temperature	Observation
Boiling Water		
Tap Water		
Distilled		

What is the most common boiling temperature of tap water in your area? _____

- Obtain 3 small beakers (100mL) and fill each to the 50mL mark of the following boiling water, tap water and tap water.
- Place a 100mL of 10% NaCl solution what will happen to the water in each beaker.
- Place one drop of food coloring into each beaker. Observe the solution and observe.

Beaker	Temperature	Observation
Boiling Water		
Tap Water		
Distilled		

What is the most common boiling temperature of tap water in your area? _____

As the temperature of the water increases the water molecules move _____ (faster, slower)

Boiling _____ (increases, decreases) the rate of dissolving.

Increasing _____ (increases, decreases) the rate of dissolving.

Solution Formation Lab Answers

Society of Chemical Industry (Great Britain)



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Report summaries United States. Environmental Protection Agency, 1983 **Lab Manual Science Class 10** Neena Sinha, R.Rangarajan, Rajesh Kumar, These Lab Manuals provide complete information on all the experiments listed in the latest CBSE syllabus The various objectives materials required procedures inferences etc have been given in a step by step manner Carefully framed MCQs and short answers type questions given at the end of the experiments help the students prepare for viva voce *Scientific and Technical Aerospace Reports*, 1977 Fourth International Symposium on Recycling of Metals and Engineered Materials Donald L. Stewart, Jr., James C. Daley, Robert L. Stephens, 2013-10-07 This proceedings collection continues the tradition established by earlier TMS Recycling Meetings in this series by presenting fundamental and practical aspects of recycling metals and engineered materials This collection concentrates on fundamental and applied research and industrial practices in the recycling of a wide variety of materials including aluminum scrap recycling aluminum dross processing aluminum by product recovery automotive recycling magnesium EAF dust processing secondary zinc secondary lead secondary copper nickel precious metals recycling refractory recycling and electronics plating *Laboratory Exercises for Preparatory Chemistry* Kathy Dodds Tyner, 1994-06 Laboratory Exercises for Preparatory Chemistry is the perfect complement to a one semester preparatory chemistry laboratory course Tyner's manual emphasizes the application of chemistry and the principles of science to everyday life The labs are directly applicable to the real world and often contain supplemental assignments that illustrate an application Chemical Abstracts, 1909 Communications from the Kamerlingh Onnes Laboratory of the University of Leiden Rijksuniversiteit te Leiden. Kamerlingh Onnes Laboratorium, 1928 The articles are reprints or translations from scientific periodicals College of Engineering Catalogue Carnegie Institute of Technology. College of Engineering and Science, 1920 **The Effect of Alkali Upon Portland Cement** Karl Theodore Steik, Wyoming Agricultural Experiment Station, 1917 *A Laboratory Manual of Organic Chemistry for Medical Students* Matthew Steel, 1916 Technical Note, 1917 **Basic Earth Science**, 1964 **International Medical and Surgical Survey**, 1921 **Transactions** Electrochemical Society, 1924 *Transactions of the Electrochemical Society* Electrochemical Society, 1924 **Journal of the Society of Chemical Industry** Society of Chemical Industry (Great Britain), 1919 *Scientific American*, 1911 **Experiment Station Record** United States. Office of Experiment Stations, 1909 **Addison-Wesley Chemistry Laboratory Manual** Dennis D. Staley, 1995 **A Laboratory Manual in Chemistry** William Conger Morgan, James Alexander Lyman, 1916

The Top Books of the Year Solution Formation Lab Answers The year 2023 has witnessed a noteworthy surge in literary brilliance, with numerous captivating novels captivating the hearts of readers worldwide. Lets delve into the realm of popular books, exploring the engaging narratives that have charmed audiences this year. Solution Formation Lab Answers : Colleen Hoover "It Ends with Us" This heartfelt tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover masterfully 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 spellbinding 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. Solution Formation Lab Answers : Delia Owens "Where the Crawdads Sing" This evocative coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens spins 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 captivating 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 gripping novel that will keep you speculating until the very end. The novel is a cautionary tale about the dangers of obsession and the power of evil.

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