

Experiment 4: The Detection of Liquids and Solids

- b. Since the volume of the liquid equals that of the flask, we know both the mass and volume of the liquid and can easily find its density using the equation in 1b. Make the calculation.

$$\frac{56.7969}{29.21 \text{ cm}^3}$$

$$\text{Density of liquid} = 1.949 \text{ g/cm}^3$$

3. Finding the density of a solid.

The student then emptied the flask and dried it once again. To the empty flask she added pieces of a metal until the flask was about half full. She weighed the stoppered flask and its metal contents and found that the mass was 99.323 g. She then filled the flask with water, stoppered it, and obtained a total mass of 120.827 g for the flask, stopper, metal, and water. Find the density of the metal.

- a. To find the density of the metal we need to know its mass and volume. We can easily obtain its mass by the method of differences:

$$\text{Mass of metal} = 99.323 \text{ g} - 31.601 \text{ g} = 67.722 \text{ g}$$

- b. To determine the volume of metal, we note that the volume of the flask must equal the volume of the metal plus the volume of water in the filled flask containing both metal and water. If we can find the volume of the water, we can obtain the volume of metal by the method of differences. To obtain the volume of the water we first calculate its mass:

$$\text{Mass of water} = \text{mass of (flask + stopper + metal + water)} - \text{mass of (flask + stopper + metal)}$$

$$\text{Mass of water} = 120.827 \text{ g} - 99.323 \text{ g} = 21.504 \text{ g}$$

The volume of water is found from its density, as in 1b. Make the calculation.

$$V = \frac{21.504 \text{ g}}{0.99703 \text{ g/cm}^3}$$

$$\text{Volume of water} = 21.562 \text{ cm}^3$$

- c. From the volume of the water we calculate the volume of metal.

$$\text{Volume of metal} = \text{volume of flask} - \text{volume of water}$$

$$\text{Volume of metal} = 29.21 \text{ cm}^3 - 21.562 \text{ cm}^3 = 7.648 \text{ cm}^3$$

From the mass of and volume of metal we find the density, using the equation in 1b. Make the calculation.

$$D = \frac{m}{V}$$

$$\frac{67.722 \text{ g}}{7.648 \text{ cm}^3}$$

$$\text{Density of metal} = 8.856 \text{ g/cm}^3$$

Now go back to Question 1 and check to see that you have reported the proper number of significant figures in each of the results you calculated in this assignment. Use the rules on significant figures as given in your chemistry text.

Experiment 1 Advance Study Assignment

KJ Lindholm-Leary



Experiment 1 Advance Study Assignment:

The Top Books of the Year Experiment 1 Advance Study Assignment The year 2023 has witnessed a noteworthy surge in literary brilliance, with numerous captivating novels enthralling the hearts of readers worldwide. Lets delve into the realm of popular books, exploring the captivating narratives that have enthralled audiences this year. Experiment 1 Advance Study Assignment : Colleen Hoover "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 masterfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can succeed. Experiment 1 Advance Study Assignment : 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 absorbing storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Experiment 1 Advance Study Assignment : Delia Owens "Where the Crawdads Sing" This captivating coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens weaves a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These bestselling 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 engaging 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 speculating until the very end. The novel is a warning tale about the dangers of obsession and the power of evil.

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