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CHEMISTRY

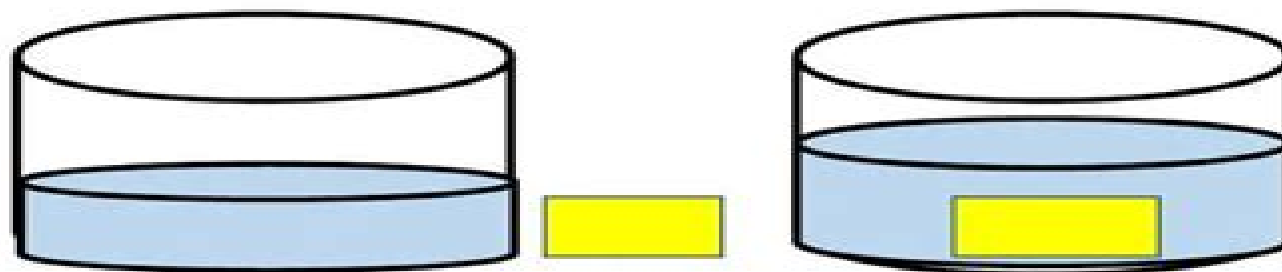
PBS Density by Displacement Simulation

Density is the compactness of matter. Density describes **the quantity of matter (mass) per unit of volume (3-dimensional space)**. Density is calculated as the mass of the matter divided by volume.

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

The symbol for density is Greek letter rho (ρ). The units for mass are in grams (g) and the units for volume is cubic centimeter (cm^3). It should be noted that 1 cm^3 is equal to 1 ml of volume. $1 \text{ cm}^3 = 1 \text{ ml}$. The units for density are g/cm^3 .

Density is calculated at mass divided by volume. You will determine density of solid materials. The volume will be determined by the displacement method. In the displacement method, the object is totally submerged within the liquid. The level or volume of the liquid inside of the container will increase because the new volume after the object is added will include the object's volume.



Volume of liquid without the submerged solid object = 200 ml (200 cm^3).

Volume of liquid with the submerged solid object = 265 ml (265 cm^3). The new volume is the volume of the liquid and volume of the object together.

The volume of the solid object is determined as the difference between the combined volume (liquid + solid) and the original volume of the liquid.

Volume object = $265 \text{ cm}^3 - 200 \text{ cm}^3 = 65 \text{ cm}^3$.

Density Lab Activities

Padhraic Smyth

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

Density Lab Activities:

The Top Books of the Year Density Lab Activities The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous compelling novels enthralling the hearts of readers worldwide. Lets delve into the realm of bestselling books, exploring the fascinating narratives that have enthralled audiences this year. Density Lab Activities : Colleen Hoover's "It Ends with Us" This heartfelt 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 triumph. Uncover the Best : Taylor Jenkins Reid's "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. Reid's compelling storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Density Lab Activities : 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 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 masterful 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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