

Physical Science – 2nd Semester – Final Exam Study Guide – (2012-2013)**1. Physical Science Basics**

- a. What tool(s) would you want to use to find the:
- i. Mass of an object? triple beam balance Basic SI Unit? kg
 - ii. Volume of an object? ruler or water displacement method Basic SI Unit? cm³ or ml
 - iii. Length of an object? Ruler Basic SI Unit? meter
 - iv. Density of an object? graduated cylinder Basic SI Unit? ml
- b. What is the formula for calculating density? mass/volume
- i. What is the density of a cube that is 15 g and has a volume of 3 cm³? 5g/cm³
 - ii. Compare the density of solid H₂O to liquid H₂O, and explain what observable effect this has.
solid H₂O is less dense than liquid H₂O

2. Chemistry Basics

- a. Element (def.) substance made up of one kind of atom
- b. Atom (def.) basic building block of matter
- c. Compound (def.) a molecule that contains atoms or molecules of two or more different elements
- d. Molecule (def.) a combination of two or more of the same or different atoms that are bonded together

3. Model of the Atom: Evolution of the Atomic Theory

Atoms are so small that many scientists throughout history have created models to describe them.

Why have atomic theories changed over time? Better technology came around.

Scientist	Year	Major Discovery/ Contribution	Name of atomic model
John Dalton	<u>1802</u>	Each element is made up of small, indivisible particles called atoms. Different elements have atoms of different masses.	<u>Billiard Ball Model</u>
J.J. Thomson	<u>1897</u>	Negatively charged electron	<u>Plum Pudding Model</u>
Niels Bohr	<u>1913</u>	Electrons move <u>fixed orbits</u> around the atom's nucleus in specific layers, or <u>electron shells</u> ; Atoms absorb or give off energy when the electrons move from one shell (<u>energy level</u>) to another	<u>Bohr Model</u>
Ernest Rutherford	<u>1909</u>	1909 (<u>Based on idea that positive reflects positive</u>) atom mostly empty space; electrons orbit randomly around positively charged nucleus	<u>Planetary Model</u>

4. Periodic Table

- a. The current periodic table is arranged by increasing atomic number.
- b. **Reading the Periodic Table**
- i. An element's properties can be predicted from its location in the periodic table.
 - ii. The atomic number represents the number of protons.
 - iii. The atomic mass represents the number of neutrons and protons.

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Social Sciences and Humanities Index ,1916 *Guide to Independent Study Through Correspondence Instruction, 1980-1982* Joan Hunter,1980 **Trade and Industrial Education; Instructional Materials** Ohio State University. Center for Vocational and Technical Education,1972 **International Index to Periodicals** ,1915 An author and subject index to publications in fields of anthropology archaeology and classical studies economics folklore geography history language and literature music philosophy political science religion and theology sociology and theatre arts **Educational Research Document Summaries** Educational Research Information Center (U.S.),1966 **Criteria for Technician Education** United States. Office of Education,1968 Suggested standard for post high school programs for training technicians *A Guide to Graduate Study* American Council on Education,1969 **Guide to the Evaluation of Educational Experiences in the Armed Services** American Council on Education,1978 **American Universities and Colleges** James J. Murray,2021-06-21 No detailed description available for American Universities and Colleges **American Universities and Colleges** ,2014-10-08 No detailed description available for American Universities and Colleges Bulletin University of Illinois (Urbana-Champaign campus). College of Education,1917 *Resources in Education* ,1998 **The American School Board Journal** William George Bruce,William Conrad Bruce,1920 **Proceedings of the High School Conference of November 1910-November 1931** ,1918 **Bulletin** ,1913 Peterson's Guide to Graduate Programs in the Physical Sciences and Mathematics ,1991

The Top Books of the Year Physical Science 2nd Semester Study Guide 2012 2013 The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous captivating novels enthralling the hearts of readers worldwide. Lets delve into the realm of top-selling books, exploring the engaging narratives that have charmed audiences this year. Physical Science 2nd Semester Study Guide 2012 2013 : Colleen Hoover's "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 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 absorbing storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Discover the Magic : 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 spins a tale of resilience, survival, and the transformative power of nature, captivating 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 brilliant and thrilling novel that will keep you wondering until the very end. The novel is a warning tale about the dangers of obsession and the power of evil.

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