

Physical Science – 2nd Semester – Final Exam Study Guide – (2012–2013)

1. Physical Science Basics

- What tool(s) would you want to use to find the:
 - Mass of an object? triple beam balance Basic SI Unit? kg
 - Volume of an object? ruler or water displacement method Basic SI Unit? cm³ or ml
 - Length of an object? Ruler Basic SI Unit? meter
 - Density of an object? graduated cylinder Basic SI Unit? ml
- What is the formula for calculating density? mass/volume
 - What is the density of a cube that is 25 g and has a volume of 3 cm³? 8g/cm³
 - Compare the density of solid H₂O to liquid H₂O, and explain what observable effect this has. solid H₂O less dense than liquid H₂O

2. Chemistry Basics

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

3. Model of the Atomic 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	1802	Each element is made up of small, indivisible particles called atoms. Different elements have atoms of different masses.	Billiard Ball Model
J.J. Thomson	1897	Negatively charged electron	Plum Pudding Model
Niels Bohr	1913	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.	Bohr Model
Ernest Rutherford	1909	1909 /Based on idea that positive reflects positive/ atom mostly empty space; electrons orbit randomly around positively charged nucleus	Planetary Model

4. Periodic Table

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

Phycical Science 2nd Semester Final Exam

AW Chickering



Physical Science 2nd Semester Final Exam:

Annual Catalogue United States Air Force Academy, 1985 *Annual Catalog - United States Air Force Academy* United States Air Force Academy, 1971 **United States Air Force Academy** United States Air Force Academy, *Research in Education*, 1974 **Resources in Education**, 1998 *Collected Papers of Carl Wieman* Carl Edwin Wieman, 2008 Carl Wieman's contributions have had a major impact on defining the field of atomic physics as it exists today His groundbreaking research has included precision laser spectroscopy using lasers and atoms to provide important table top tests of theories of elementary particle physics the development of techniques to cool and trap atoms using laser light particularly in inventing much simpler less expensive ways to do this the understanding of how atoms interact with one another and light at ultracold temperatures and the creation of the first Bose Einstein condensation in a dilute gas and the study of the properties of this condensate In recent years he has also turned his attention to physics education and new methods and research in that area This indispensable volume presents his collected papers with annotations from the author tracing his fascinating research path and providing valuable insight about the significance of the works *Chemical News and Journal of Physical Science*, 1916 Guide to the Evaluation of Educational Experiences in the Armed Services: Coast Guard, Marine Corps, Navy, Department of Defense American Council on Education, 1978 **Congressional Record** United States Congress, 1958 The Congressional Record is the official record of the proceedings and debates of the United States Congress It is published daily when Congress is in session The Congressional Record began publication in 1873 Debates for sessions prior to 1873 are recorded in The Debates and Proceedings in the Congress of the United States 1789 1824 the Register of Debates in Congress 1824 1837 and the Congressional Globe 1833 1873 Digest of Education Statistics, 2007 *Undergraduate Catalog* University of Michigan--Dearborn, 2006 **The Chemical News and Journal of Physical Science**, 1873 *Proceedings of the Oklahoma Academy of Science* Oklahoma Academy of Science, 1941 Vols 1 49 are Proceedings of the 1st 57th annual meetings *Catalogue* University of the Philippines, 1926 *Chemical News and Journal of Physical Science* William Crookes, James H. Gardiner, Gerald Druce, H. W. Blood-Ryan, 1916 Future U.S. Workforce for Geospatial Intelligence National Research Council, Policy and Global Affairs, Board on Higher Education and Workforce, Division on Earth and Life Studies, Board on Earth Sciences and Resources, Committee on the Future U.S. Workforce for Geospatial Intelligence, 2013-04-28 We live in a changing world with multiple and evolving threats to national security including terrorism asymmetrical warfare conflicts between agents with different military powers or tactics and social unrest Visually depicting and assessing these threats using imagery and other geographically referenced information is the mission of the National Geospatial Intelligence Agency NGA As the nature of the threat evolves so do the tools knowledge and skills needed to respond The challenge for NGA is to maintain a workforce that can deal with evolving threats to national security ongoing scientific and technological advances and changing skills and expectations of workers Future U S Workforce

for Geospatial Intelligence assesses the supply of expertise in 10 geospatial intelligence GEOINT fields including 5 traditional areas geodesy and geophysics photogrammetry remote sensing cartographic science and geographic information systems and geospatial analysis and 5 emerging areas that could improve geospatial intelligence GEOINT fusion crowdsourcing human geography visual analytics and forecasting The report also identifies gaps in expertise relative to NGA s needs and suggests ways to ensure an adequate supply of geospatial intelligence expertise over the next 20 years *Bulletin* ,1932

Nursery Schools Cecil Branner Hayes, Elise Henrietta Martens, Florence Cornelia Fox, James Frederick Abel, Julian Edward Butterworth, Marie Margaret Ready, Mary Dabney Davis, Mrs. Katherine Margaret (O'Brien) Cook, Nathan William Newsom, Walter Herbert Gaumnitz, 1932 **Bulletin** United States. Office of Education, 1932 *Bulletin - Bureau of Education* United States. Bureau of Education, 1932

Unveiling the Power of Verbal Artistry: An Psychological Sojourn through **Physical Science 2nd Semester Final Exam**

In a world inundated with monitors and the cacophony of instantaneous communication, the profound energy and psychological resonance of verbal artistry frequently diminish into obscurity, eclipsed by the continuous onslaught of sound and distractions. However, nestled within the musical pages of **Physical Science 2nd Semester Final Exam**, a charming function of fictional elegance that impulses with natural thoughts, lies an unforgettable trip waiting to be embarked upon. Composed with a virtuoso wordsmith, this enchanting opus courses visitors on an emotional odyssey, delicately exposing the latent possible and profound influence stuck within the intricate internet of language. Within the heart-wrenching expanse with this evocative analysis, we will embark upon an introspective exploration of the book is central themes, dissect their interesting writing style, and immerse ourselves in the indelible impression it leaves upon the depths of readers souls.

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