

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
 - Volume of an object? ruler or water displacement method
 - Length of an object? Ruler
 - Density of an object? graduated cylinder
- 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? 8.33/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	1808	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 protons and neutrons.

Physical Science Final Exam Study Guide

John D. Butler



Physical Science Final Exam Study Guide:

X-kit Exam 2004 Physical Science ,2005 Physics Handbook & Study Guide Grade 11-12 IEB Kevin

Smith,2024-02-01 A comprehensive summary of Grade 11 12 Physics Simple logical summaries with example exam questions and work through solutions The book covers the fundamentals of Grade 11 12 Physics and complements the material in any class text CHEMISTRY HANDBOOK & STUDY GUIDE Gr11-12 NE Kevin Smith,2024-02-01 A comprehensive summary of Grade 11 12 Physics Simple logical summaries with example exam questions and work through solutions The book covers the fundamentals of Grade 11 12 Physics and complements the material in any class text *Resources in Education* ,1997

Revise GCSE Science John Sadler,Ian Honeysett,Carol Tear,2006 Written by examiners and practising teachers this work offers study and homework support throughout GCSE It is useful as a reference source a lesson back up and as a revision guide *Who's the New Kid in Chemistry?* John D. Butler,2013-12-12 Who s the New Kid in Chemistry offers an

unprecedented look at student engagement and teacher best practices through the eyes of an educational researcher enrolled as a public high school student Over the course of seventy nine consecutive days John D Butler participates in and observes Rhode Island 2013 Teacher of the Year Jessica M Waters s high school chemistry class documenting his experiences as they unfold Who s the New Kid in Chemistry is a compelling example of what can be accomplished when an educational researcher and teacher collaborate in the classroom This work includes a discussion on flexible homework assignments data driven instruction and thirty teacher best practices This book is an invaluable resource for teachers across all content areas masters and doctoral research method classes and future Teachers of the Year **Vibration Engineering Exam Study**

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Mark Bromann,2001-04-05 Although effective fire sprinkler systems are crucial to public safety for years the designers of those systems had few published resources to reference and guide them through their design processes The first edition of this book changed all that and now The Design and Layout of Fire Sprinkler Systems Second Edition suits their needs even better Written and thoroughly updated by a fire prevention engineer with more than 20 years of experience this book

provides a complete systematic introduction to automatic fire sprinkler design and layout from design basics code requirements and pipe hanging to hydraulic calculations retrofits and details on fire pumps The author carefully outlines all of a designer s responsibilities and includes an entire chapter dedicated to preparing for the NICET exam More than 150 sample diagrams checklists sample forms spec sheets photographs and a glossary complement the text and the larger page size of this edition permits clear presentation of diagrams and schematics The Design and Layout of Fire Sprinkler Systems not only builds the foundation and skills of newcomers to the field but also provides an outstanding reference for fire safety professionals building inspectors insurance underwriters and municipal officials AQA Mathematics Bob Hartman,2006

Written by examiners and practising teachers this work offers study and homework support throughout GCSE It is useful as a reference source a lesson back up and a revision guide *Departments of Veterans Affairs and Housing and Urban Development and Independent Agencies Appropriations for Fiscal Year 1993: American Battle Monuments Commission*

United States. Congress. Senate. Committee on Appropriations. Subcommittee on VA-HUD-Independent Agencies,1992

Whispering the Strategies of Language: An Psychological Journey through **Physical Science Final Exam Study Guide**

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