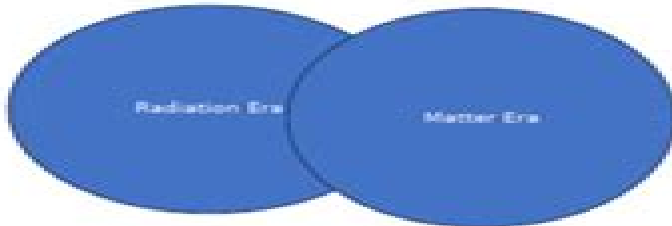




Teacher's Name	ANTHONY A. DONGON	Grade Level	12	Lesson Number	2
Subject	PHYSICAL SCIENCE	Quarter	1	Week	Week 3-12 days
Unit Topic	Formation of Elements Found in the Universe	Date	AUGUST 5-6 2024	Time	7
Unit Standard	<b>Content Standards:</b> Students demonstrate understanding of: The formation of the elements during the big bang and during stellar evolution The distribution of the chemical elements and the isotopes in the universe  <b>Performance Standards:</b> Students shall be able to give evidence for the formation of light elements after Big Bang.				
Learning Competencies / Skills	Acquisition	<b>The learners will be able to:</b> Differentiate the Radiation Era and Matter Era			
	Meaning-Making	<b>The students will understand that:</b> Explain the formation of light elements found in the universe seconds after the Big Bang. Explain the formation of heavier elements during star formation and evolution.			
	Transfer	<b>The students in the long run will be able to independently use their learning to:</b> Give evidence for the formation of light elements after the Big Bang.			
	Values Integration	Patience Keenness Teamwork Genuine Concern Determination Acknowledgement of one's weaknesses Timeless pursuit of new knowledge			
Learning Targets	I can ... <ul style="list-style-type: none"><li>Describe and recall the origin of the universe by Big Bang Theory</li><li>Explain how the formation of light elements found in the universe seconds after the Big Bang.</li><li>Give evidence for and describe the formation of light elements after the Big Bang</li></ul>				

Resources	Video Presentation, IM's, Textbook, Internet	
Learning Procedure (4A's Model)		
Activity 1: Venn Diagram		
Acquisition	 <p>Guide Questions:</p> <ol style="list-style-type: none"><li>How did you differentiate the two (2) Era?</li><li>What are those characteristics of the two (2) Era?</li></ol>	Teaching Strategies
Meaning-Making	<p><b>Abstraction:</b> The Formation of Heavier Elements after the Big Bang from the video presentation (<a href="https://youtu.be/wcQGd2CXs4I">https://youtu.be/wcQGd2CXs4I</a> <a href="https://youtu.be/wcQGd2CXs4I">https://youtu.be/wcQGd2CXs4I</a>).</p> <p><b>Discussion</b> -Formation of Heavier Elements after the Big Bang -Balancing Equation in the formation of heavier elements)</p>	<ol style="list-style-type: none"><li>Let the students watch the video from the <a href="https://youtu.be/wcQGd2CXs4I">https://youtu.be/wcQGd2CXs4I</a> <a href="https://youtu.be/wcQGd2CXs4I">https://youtu.be/wcQGd2CXs4I</a></li><li>Tell them to write down important information.</li><li>Ask them Formation of Heavier Elements after the Big Bang.</li><li>Then discuss their responses.</li><li>Discuss and ask some students to analyze the data by their previous activity that they performed and how it will connect in the formation of elements in the universe.</li><li>Address any misunderstanding that was evident</li></ol>

# Physical Science Gradepcaps Exemplar

**William Crookes, James H.  
Gardiner, Gerald Druce, H. W. Blood-  
Ryan**



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**Educational Assessment in a Time of Reform** Coert Looock, Vanessa Scherman, 2019-11-20 Educational Assessment in a Time of Reform provides background information on large scale examination systems more generally and the South African examination specifically It traces the reforms in the education system of South Africa since 1994 and provides a description of the advances in modern test theory that could be considered for future standard setting endeavours At the heart of the book is the debate on whether the current standard of education in Africa is good enough If not then how can it be improved The aim of this book is to provide a point of departure for discussions on standard setting quality assurance equating of examinations and assessment approaches From this point of departure recommendations for practices in general and the exit level Grade 12 examination

results in particular can be made This book is ideal reading for principals teachers academics and researchers in the fields of educational assessment measurement and evaluation *Chemical News and Journal of Physical Science* ,1920 *Science Scope* ,2003 **Representations of Nature of Science in School Science Textbooks** Christine McDonald,Fouad Abd-El-Khalick,2017-04-21 Bringing together international research on nature of science NOS representations in science textbooks the unique analyses presented in this volume provides a global perspective on NOS from elementary to college level and discusses the practical implications in various regions across the globe Contributing authors highlight the similarities and differences in NOS representations and provide recommendations for future science textbooks This comprehensive analysis is a definitive reference work for the field of science education **The Chemical News and Journal of Physical Science** ,1920 *Chemical News and Journal of Physical Science* William Crookes,James H. Gardiner,Gerald Druce,H. W. Blood-Ryan,1920 **Examination of the U.S. Air Force's Science, Technology, Engineering, and Mathematics (STEM) Workforce Needs in the Future and Its Strategy to Meet Those Needs** National Research Council,Division on Engineering and Physical Sciences,Air Force Studies Board,Committee on Examination of the U.S. Air Force's Science, Technology, Engineering, and Mathematics (STEM) Workforce Needs in the Future and Its Strategy to Meet Those Needs,2010-12-09 The Air Force requires technical skills and expertise across the entire range of activities and processes associated with the development fielding and employment of air space and cyber operational capabilities The growing complexity of both traditional and emerging missions is placing new demands on education training career development system acquisition platform sustainment and development of operational systems While in the past the Air Force s technologically intensive mission has been highly attractive to individuals educated in science technology engineering and mathematics STEM disciplines force reductions ongoing military operations and budget pressures are creating new challenges for attracting and managing personnel with the needed technical skills Assessments of recent development and acquisition process failures have identified a loss of technical competence within the Air Force that is in house or organic competence as opposed to contractor support as an underlying problem These challenges come at a time of increased competition for technical graduates who are U S citizens an aging industry and government workforce and consolidations of the industrial base that supports military systems In response to a request from the Deputy Assistant Secretary of the Air Force for Science Technology and Engineering the National Research Council conducted five fact finding meetings at which senior Air Force commanders in the science and engineering acquisition test operations and logistics domains provided assessments of the adequacy of the current workforce in terms of quality and quantity *Technical Training. Being a Suggestive Sketch of a National System of Industrial Instruction, Founded on a General Diffusion of Practical Science Among the People* Thomas Twining (of Perryn House, Twickenham.),1874 **Comparing science content in the National Assessment of Educational Progress (NEAP) 2000 and Trends in International**

**Mathematics and Science Study (TIMSS) 2003 assessments technical report.** ,2006     Encyclopedia of Physical Science and Technology Robert Allen Meyers,1987     **Technical Training** Thomas Twining,1874     Encyclopedia of Physical Science and Technology ,1992     **Henry's Clinical Diagnosis and Management by Laboratory Methods**

**E-Book** Richard A. McPherson,Matthew R. Pincus,2011-09-06 Recognized as the definitive book in laboratory medicine since 1908 Henry s Clinical Diagnosis and Management by Laboratory Methods edited by Richard A McPherson MD and Matthew R Pincus MD PhD is a comprehensive multidisciplinary pathology reference that gives you state of the art guidance on lab test selection and interpretation of results Revisions throughout keep you current on the latest topics in the field such as biochemical markers of bone metabolism clinical enzymology pharmacogenomics and more A user friendly full color layout puts all the latest most essential knowledge at your fingertips Update your understanding of the scientific foundation and clinical application of today s complete range of laboratory tests Get optimal test results with guidance on error detection correction and prevention as well as cost effective test selection Reference the information you need quickly and easily thanks to a full color layout many new color illustrations and visual aids and an organization by organ system Master all the latest approaches in clinical laboratory medicine with new and updated coverage of the chemical basis for analyte assays and common interferences lipids and dyslipoproteinemia markers in the blood for cardiac injury evaluation and related stroke disorders coagulation testing for antiplatelet drugs such as aspirin and clopidogrel biochemical markers of bone metabolism clinical enzymology hematology and transfusion medicine medical microbiology body fluid analysis and many other rapidly evolving frontiers in the field Effectively monitor the pace of drug clearing in patients undergoing pharmacogenomic treatments with a new chapter on this groundbreaking new area Apply the latest best practices in clinical laboratory management with special chapters on organization work flow quality control interpretation of results informatics financial management and establishing a molecular diagnostics laboratory Confidently prepare for the upcoming recertification exams for clinical pathologists set to begin in 2016     **Geography Education for Global Understanding** Ali Demirci,Rafael de Miguel González,Sarah Witham Bednarz,2018-04-26 This book presents the core concepts of geographical education as a means of understanding global issues from a spatial perspective It treats education supported by high standards approaches methodologies and resources as essential in exploring the interactions of the world s human and environmental systems at local regional and global scales embedded in the nature of the discipline of geography It covers topics such as climate change sustainable development goals geopolitics in an uncertain world global crisis and population flows which are of great interest to geography researchers and social sciences educators who want to explore the complexity of contemporary societies Highly respected scholars in geography education answer questions on key topics and explain how global understanding is considered in K 12 education in significant countries around the globe The book discusses factors such as the Internet social media virtual globes and other technological developments that provide insights into and visualization in real time of the

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