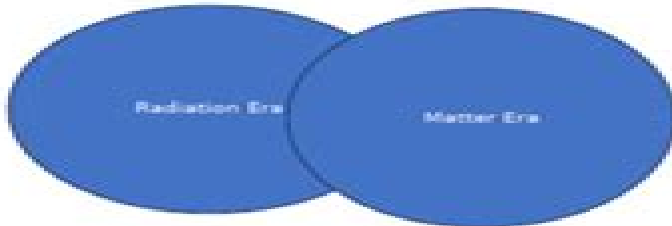




Teacher's Name	ANTHONY A. DONGON	Grade Level	12	Lesson Number	2
Subject	PHYSICAL SCIENCE	Quarter	1	Week	Week 3-12 days
Unit Topic	Formation of Elements Found in the Universe	Date	AUGUST 5-6 2024	Time	7
Unit Standard	Content Standards: Students demonstrate understanding of: The formation of the elements during the big bang and during stellar evolution The distribution of the chemical elements and the isotopes in the universe Performance Standards: Students shall be able to give evidence for the formation of light elements after Big Bang.				
Learning Competencies / Skills	Acquisition	The learners will be able to: Differentiate the Radiation Era and Matter Era			
	Meaning-Making	The students will understand that: 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	The students in the long run will be able to independently use their learning to: 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 ... - Describe and recall the origin of the universe by Big Bang Theory - Explain how the formation of light elements found in the universe seconds after the Big Bang. - Give evidence for and describe the formation of light elements after the Big Bang				

Resources	Video Presentation, IM's, Textbook, Internet	
Learning Procedure (4A's Model)		
Activity 1: Venn Diagram		
Acquisition	 Guide Questions: - How did you differentiate the two (2) Era? - What are those characteristics of the two (2) Era?	Teaching Strategies
Meaning-Making	Abstraction: The Formation of Heavier Elements after the Big Bang from the video presentation (https://youtu.be/aoO6d2CXs4I; https://youtu.be/aoO6d2CXs4I; https://youtu.be/aoO6d2CXs4I). Discussion -Formation of Heavier Elements after the Big Bang -Balancing Equation in the formation of heavier elements)	D1 activity: - Give an overview of the topics to be discussed in the quarter - Provide an overview of the performance task, but do not mention the specific details. Orient the class on the knowledge and skills that they need to acquire/develop in preparation for the task. - Engage the students in a diagnostic activity. Instruct them to fill in the graphic organizer given. Let them share their ideas to the class. Allow them also to critique each other's answers. - Note specific points that need to be clarified or affirmed during class discussion. - Let the students watch the video from the https://youtu.be/aoO6d2CXs4I - Tell them to write down important information. - Ask them Formation of Heavier Elements after the Big Bang. - Then discuss their responses. - 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. - Address any misunderstanding that was evident

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In an electronic era where connections and knowledge reign supreme, the enchanting power of language has are more apparent than ever. Its capability to stir emotions, provoke thought, and instigate transformation is really remarkable. This extraordinary book, aptly titled "**Physical Science Gradepcaps Exemplar**," compiled by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound impact on our existence. Throughout this critique, we shall delve in to the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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web orthogonality of the transformation matrix q as in the two dimensional case the transformation matrix is orthogonal $q^T q = I$ this follows from $1 5 11 1 5 13$ example consider a cartesian coordinate system with base vectors e_i a coordinate transformation is carried out with the new basis given by $3 3 2 3 3 1 2 3 3 1 3 2$

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web coordinates of v the standard coordinates are v_3 are the $b_1 b_2$ are assumed if no other basis is specified this means $v = 3e_1 + 4e_2 + 4e_3$ if b_1, b_2, b_3 is a basis of $\mathbb{R}^n$ then the matrix S which contains the vectors v_k as column vectors is called the coordinate change matrix

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