



**LESSON EXEMPLAR FOR FULL FACE TO FACE**

**SENIOR HIGH SCHOOL DEPARTMENT**

School Year 2024 – 2025

Teacher's Name	ANTHONY A. DONGON	Grade Level	12	Lesson Number	1
Subject	PHYSICAL SCIENCE	Quarter	1	Week	Week 1 – (4 days)
Unit Topic	Formation of Elements From the Universe	Date	July 22 – 26, 2024	Time	1
Unit Standard	<p><b>Content Standard:</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.</p> <p><b>Performance Standards:</b> Students shall be able to give evidence for the formation of light elements after Big Bang.</p>				
Learning Competencies / Skills	Acquisition	The learners will be able to: Describe the Big Bang. TM			
	Meaning- Making	The students will understand that: Explain the formation of light elements formed in the universe seconds after the Big Bang. TM Explain the formation of heavier elements during star formation and evolution. TM			
	Transfer	The students in the long run will able to independently use their learning to: Give evidence for the formation of light elements after the Big Bang. TM			
	Value Integration	Integrity Honesty Teamwork Creative Concepts Demosstration Acknowledgement of one's weaknesses Timely pursuit of new knowledge			
Learning Targets	<p><b>LEARN ...</b></p> <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 formed 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)		Teaching Strategies
Acquisition	<p><b>ACTIVITY</b>  <b>D1. Completion of a graphic (Group Activity)</b></p> <div style="display: flex; justify-content: space-around;"> <div style="border: 1px solid black; padding: 5px; width: 20%;"> <p>How were the elements found in the universe formed?</p> </div> <div style="border: 1px solid black; padding: 5px; width: 20%;"> <p>How did the idea of the accumulating with the elements, evolved?</p> </div> <div style="border: 1px solid black; padding: 5px; width: 20%;"> <p>How do the properties of matter relate to their chemical structure?</p> </div> </div> <p><b>D2. An Expanding Universe (Group Activity)</b></p> <p><b>Objective:</b> to make a model of an expanding universe  <b>Materials:</b> two marker pens (red, black)            Balloons (not red nor black)            Tape measure</p> <p><b>Procedure:</b></p> <ol style="list-style-type: none"> <li>Ask a groupmate to blow the balloons with air until it is stretched tight and hold it closed.</li> <li>Using tape measure, measure its diameter.</li> <li>Draw red dots on the surface of the balloons about two centimeters apart. See the given illustration.</li> <li>Locate a central dot and circle it with a black marker.</li> <li>Choose 10 dots (choose far and close near the central dot). Label them A to J.</li> <li>Measure the distances of dots A to J from the central dot. Record these distances.</li> </ol>	<p><b>D1 activity:</b></p> <ol style="list-style-type: none"> <li>Give an overview of the topics to be discussed in the quarter.</li> <li>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.</li> <li>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.</li> <li>Note specific points that need to be clarified or affirmed during class discussions.</li> </ol> <p><b>D2 activity:</b></p> <ol style="list-style-type: none"> <li>Let the student create a group to perform the given activity.</li> <li>Lead the student and explain the importance in doing the procedures.</li> </ol> <p><b>Data and Observations Answer:</b></p> <p>Answers may vary. Accept all logical answers.</p>

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Sigelman, Elizabeth A. Rider, 2003 By combining the best of topical and chronological approaches this text presents life span  
development as a motion picture rather than as a series of individual snapshots

## Unveiling the Magic of Words: A Overview of "**Physical Science Papermemorandum Exemplar**"

In a global defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their ability to kindle emotions, provoke contemplation, and ignite transformative change is truly awe-inspiring. Enter the realm of "**Physical Science Papermemorandum Exemplar**," a mesmerizing literary masterpiece penned by a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve into the book is central themes, examine its distinctive writing style, and assess its profound effect on the souls of its readers.

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