



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 Formed in the Universe		Date	July 22 – 26, 2024	Time	7
Unit Standard	Content Standard: 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: Describe the Big Bang. TMI				
	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. TMI				
	Value Integration	Patience Keenness Teamwork Creative Concern Democratization Acknowledgement of one's weaknesses Timely pursuit of new knowledge				
Learning Targets	I can ... <ul style="list-style-type: none">Describe and recall the origin of the universe by Big Bang TheoryExplain how the formation of light elements formed 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, TMI, Textbook, Internet					

Learning Procedure (4A's Model)			Teaching Strategies
Acquisition	<p>Activity: DI. Completion of a graphic (Group Activity)</p> <div style="display: flex; justify-content: space-around;"> <div style="border: 1px solid black; padding: 5px; width: 30%;"> <p>How were the elements found in the universe formed?</p> </div> <div style="border: 1px solid black; padding: 5px; width: 30%;"> <p>How did the idea of the accumulating with the elements, evolved?</p> </div> <div style="border: 1px solid black; padding: 5px; width: 30%;"> <p>How do the properties of matter relate to their chemical structure?</p> </div> </div> <p>DI. An Expanding Universe (Group Activity)</p> <p>Objective: to make a model of an expanding universe Materials: two marker pens (red, black) Balloons (not red nor black) Tape measure</p> <p>Procedure:</p> <ol style="list-style-type: none"> Ask a groupmate to blow the balloons with air until it is stretched tight and hold it closed. Using tape measures, measure its diameter. Draw red dots on the surface of the balloons about two centimeters apart. See the given illustration. Locate a central dot and circle it with a black marker Choose 10 dots (some far and some near the central dot). Label them A to J. Measure the distances of dots A to J from the central dot. Record these distances. 	<p>DI1 activity:</p> <ol style="list-style-type: none"> 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. <p>DI2 activity:</p> <ol style="list-style-type: none"> Let the students create a group to perform the given activity. Lead the student and explain the importance in doing the procedures. <p>Data and Observations Answer:</p> <p>Answer may vary. Accept all logical answers.</p>	

Physical Science Papermemorandum Exemplar

Jianjun Gao



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Who's who Among Students in American Universities and Colleges ,1968 *The Athenaeum* ,1850 **Yearbook of Science and the Future** ,1999 **Bulletin of the Atomic Scientists** ,1985-08 **MSU Business Topics** ,1969
Social Sciences Index ,2001 **The Athenaeum** James Silk Buckingham,John Sterling,Frederick Denison Maurice, Henry Stebbing, Charles Wentworth Dilke, Thomas Kibble Hervey, William Hepworth Dixon, Norman Maccoll, Vernon Horace Rendall, John Middleton Murry, 1864 *Contemporary India* ,2002 **The Athenæum** ,1864 **The Scottish Educational Journal** ,1952 **Research Catalogue of the American Geographical Society: General topical numbers 1-4. General Geography ; Travel and Exploration ; Mathematical Geography ; Physical Geography** American Geographical Society of New York, 1962 Government Reports Announcements & Index ,1982-05 Chemist and Druggist ,1931 **Books in Print Supplement** ,1985 Forthcoming Books Rose Arny, 1992 **General Catalogue of Printed Books to 1955** British Museum. Dept. of Printed Books, 1967 **Life-span Human Development** Carol K. 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

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