



School:	CITI GLOBAL COLLEGE - CABUYAO	Grade Level:	ELEVEN
Teacher:	BENEDICT E. RICO	Learning Area:	Core – PHYSICAL SCIENCE
Teaching Dates and Time:	(Week 1)	Strand: Semester: Quarter:	HUMSS 1 <sup>st</sup> SEM FIRST

**Tuesday**

Tuesday	
<b>I. OBJECTIVES</b>	
A. Content Standards	1. The formation of the elements during the Big Bang and during stellar evolution 2. The distribution of the chemical elements and the isotopes in the universe
B. Performance Standards	The learners shall be able to effectively present or discuss the aspects of a scientific theory in light of its evidence.
C. Learning Competencies and LC Code	Give evidence for and explain the formation of the light elements in the Big Bang theory (S11/12PS-IIIa-1)
D. Enabling Competencies	
E. Specific Objectives	At the end of the lesson, the learners are expected to: a. Briefly discuss the cosmology of the Big Bang model b. Provide an overview of the proof for the Big Bang model c. Write reactions involving the nucleosynthesis of the first elements
<b>II. CONTENT</b>	How the elements found in the universe were formed
<b>III. LEARNING RESOURCES</b>	
A. References	
1. Teacher's Guide Pages	pp 14-24
2. Learner's Materials Pages	
3. Textbook Pages	
4. Additional Materials from Learning Resources	Contemporary Physics Education Project (CPEP). (2003 November). September 16, 2015 from <a href="http://www2.lbl.gov/abc/wallchart/teachersguide/pdf/Chap10.pdf">http://www2.lbl.gov/abc/wallchart/teachersguide/pdf/Chap10.pdf</a>  Peebles, P.J.E., Schramm, D.N., Turner, E.L. & R.G. Kron 1991, "The Case for the Relativistic Hot Big Bang Cosmology", Nature, 352, 769 - 776. <a href="https://wmap.gsfc.nasa.gov/universe/bb_theory.html">https://wmap.gsfc.nasa.gov/universe/bb_theory.html</a>  <a href="https://www.google.com/search?q=formation+of+the+lights+elements+in+the+big+bang">https://www.google.com/search?q=formation+of+the+lights+elements+in+the+big+bang</a>  <a href="https://en.wikipedia.org/wiki/Big_Bang">https://en.wikipedia.org/wiki/Big_Bang</a>  <a href="https://en.wikipedia.org/wiki/Nucleosynthesis">https://en.wikipedia.org/wiki/Nucleosynthesis</a>  <a href="https://www.google.com/url?sa=i&amp;url=https%3A%2F%2Fwww.researchgate.net%2Ffigure%2FNuclear-reaction-network-in-Big-bang">https://www.google.com/url?sa=i&amp;url=https%3A%2F%2Fwww.researchgate.net%2Ffigure%2FNuclear-reaction-network-in-Big-bang</a>
B. Other Learning Resources and Materials for Development & Engagement Activities	Laptop, Power Point Presentation, White Board Marker, Marker, A Video, Ballon, Stickers, Ballon Pump
<b>IV. PROCEDURES</b>	
introduction	<u>Preliminary Activities:</u> -Prayer -Greetings -Maintaining cleanliness and orderliness of the classroom -Checking of the learners' attendance -Rules and Regulations -There's always LOVE:

# Physical Science Exemplar 2014 Pmemorandum

**Xiang Xie**



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