

#### Grades 11 to 12 Lesson Exemplar

Teacher;	BENEDICT E. RICK	>

**Teaching Dates** 

and Time:

School: CITI GLOBAL COLLEGE - CABUYAO

(Week 1)

Learning Area: Strand: Semester: Quarter:

Grade Level: ELEVEN

Core — PHYSICAL SCIENCE HUMSS 1" SEM FIRST

Tuesday	
L OBJECTIVES	The state of the s
A. Content Standards	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	The learners shall be able to effectively present or discuss the aspects of a scientific theor 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 (\$11/12PS-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
IL CONTENT	How the elements found in the universe were formed
III. LEARNING RESOURCES 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 http://www2.lbl.gov/abc/wallchart/ teachersguide/pdf/Chap10.pdf  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. https://wmap.gsfc.nasa.gov/universe/bb_theory.html  https://www.google.com/search?q=formation+of+the+lights+elements+in+the+bi+bang  https://en.wikipedia.org/wiki/Big_Bang  https://en.wikipedia.org/wiki/Nucleosynthesis  https://en.wikipedia.org/wiki/Nucleosynthesis  https://www.google.com/url?sa=i&url+https%3A%2F%2Fwww.researchgate.net%2Figure%2FNuclear-reaction-network-in-Big-bang
B. Other Learning Resources and Materials for Development & Engagement Activities IV. PROCEDURES	Laptop, Power Point Presentation, White Board Marker, Marker, A Video, Ballon, Stickers, Ballon Pump
Introduction	Preliminary Activities: -Prayer -Greetings -Maintaining cleanliness and orderliness of the classroom -Checking of the learners' attendance -Rules and Regulations -There's always LOVE:

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