



Topics / Contents In The Beginning (Big Bang Theory and Formation of the Light Elements)	Questions
	<p>1. Which is the correct order or arrangement of the stages of the Big Bang Theory?</p> <p>A. <b>Big Bang singularity, inflation, nucleosynthesis, recombination</b>  B. Big Bang singularity, inflation, recombination, nucleosynthesis  C. Big Bang singularity, recombination, inflation, nucleosynthesis  D. Big Bang singularity, recombination, nucleosynthesis, inflation</p> <p>2. What is lacking in the following nucleosynthesis reaction <math>{}^2_1\text{H} + {}^3_1\text{H} \rightarrow</math> ?</p> <p>A. <math>{}^4_2\text{He}</math>  B. <math>{}^4_2\text{He}</math>  C. <math>{}^1_1\text{H}</math>  D. <math>{}^4_2\text{He}</math></p> <p>3. Which of the following refers to the process of producing the light elements such as hydrogen and helium?</p> <p>A. supernova nucleosynthesis  B. <b>big bang nucleosynthesis</b>  C. cosmic ray spallation  D. r-process</p> <p>4. According to the big bang theory, how much time was needed to produce the light elements hydrogen and helium?</p> <p>A. <b>3 minutes</b>  B. 5 hours  C. 7 million years  D. 13.8 billion years</p> <p>5. It is the lightest element and the starting point of nuclear fusion reactions in stars.</p> <p>A. <b>hydrogen</b>  B. helium  C. carbon  D. nitrogen</p> <p>6. Refer to the figure below.</p>  <p>Which of the following is the by-product of the nucleosynthesis of helium-4 from a deuterium and tritium?</p> <p>A. Proton  B. <b>gamma radiation</b></p>

	<p>C. helium-3  D. neutron</p>
<p>We Are All Made of Star Stuff (Formation of the Heavy Elements)</p>	<p>7. What happens when something redshifts?</p> <p>A. <b>Its wavelength increases.</b>  B. Its energy increases.  C. Its frequency increases.  D. Its size increases.</p> <p>8. What does the increase in wavelength of light from a galaxy mean?</p> <p>A. <b>The galaxy is moving away from the Earth, and the universe is expanding.</b>  B. The galaxy is moving towards the Earth, and the universe is expanding.  C. The galaxy is moving towards the Earth, and the universe is being compressed.  D. The galaxy is moving away from the Earth, and the universe is being compressed.</p> <p>9. Which of the following processes is likely to generate the heaviest element?</p> <p>A. CNO cycle  B. <b>r-process</b>  C. triple-alpha process  D. Big Bang nucleosynthesis</p> <p>10. It is the process that uses kinetic energy of protons to form helium-4 from hydrogen.</p> <p>A. <b>proton-proton chain</b>  B. CNO cycle  C. nuclear fission  D. beta decay</p> <p>11. Refer to the figure below.</p>  <p>Which of the following is the other reaction product for the nucleosynthesis of beryllium-7 from helium-4?</p>

# Chapter Review Modern Physical Science Answer Key

**Chao Zhang**



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