

Topics / Contents	Questions
In The Beginning (Big Bang Theory and Formation of the Light Elements)	<p>1. Which is the correct order or arrangement of the stages of the Big Bang Theory?</p> <p>A. <i>Big Bang singularity, inflation, nucleosynthesis, recombination</i></p> <p>B. <i>Big Bang singularity, inflation, recombination, nucleosynthesis</i></p> <p>C. <i>Big Bang singularity, recombination, inflation, nucleosynthesis</i></p> <p>D. <i>Big Bang singularity, recombination, nucleosynthesis, inflation</i></p> <p>2. What is lacking in the following nucleosynthesis reaction <math>{}^3\text{He} + {}^3\text{H} \rightarrow \text{?}</math></p> <p>A. <math>{}^4\text{Li}</math></p> <p>B. <math>{}^4\text{He}</math></p> <p>C. <math>{}^3\text{H}</math></p> <p>D. <math>{}^3\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</p> <p>B. <i>big bang nucleosynthesis</i></p> <p>C. cosmic ray spallation</p> <p>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. <i>3 minutes</i></p> <p>B. 5 hours</p> <p>C. 7 million years</p> <p>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. <i>hydrogen</i></p> <p>B. helium</p> <p>C. carbon</p> <p>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</p> <p>B. gamma radiation</p>

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

# Physical Science Chapter 20 Test Answer Key

**G Thomas**



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