

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>{}^4\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 product of the nucleosynthesis of beryllium-7 from helium-4?</p>

# Pearson Physical Science Review Answer Key

**C Cleary**



## **Pearson Physical Science Review Answer Key:**

**Chemical News and Journal of Physical Science** ,1870      **The Chemical News and Journal of Physical Science** ,1870      **Boston Journal of Chemistry and Popular Science Review** ,1871      **The Chemical News and Journal of Physical Science** ,1917      The School Science Review ,2007      Debates in Science Education Justin Dillon, Mike Watts, 2022-11-23 This fully revised second edition of *Debates in Science Education* explores the major issues that science teachers encounter in teaching their subject encouraging the reader to make their own informed judgements and argue their point of view with deeper theoretical knowledge and understanding Brand new chapters written by a team of international experts provide fresh insight into topics of central importance when teaching science Written to aid and inspire beginning teachers current teachers and established subject leaders these focused chapters are essential to anyone wishing to deepen their understanding of salient issues within school science education including STEAM education sustainability and climate change science and sensitive issues equity and diversity science and sex education science and religion science and pedagogy including science inquiry transition from primary to secondary school Encouraging critical reflection and aiming to stimulate both novice and experienced teachers this book is a valuable resource for any student or practicing teacher and particularly those engaged in continuing professional development or Master s level study      *The New Ireland Review* ,1897

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to adapt to climate change as well as the solutions is urgent and important to face the new challenges Coastal wetlands lie in the transition zone between lands and seas defending us from storms and floodings and providing important and valuable ecosystem services such as carbon stock and biodiversity maintenance However coastal wetlands are vulnerable and are one of the most physically disturbed ecosystems on earth because they are always in hydrodynamic conditions under the interactions among tides waves runoffs and so on Furthermore the combined impacts of climate change and human activities have caused more uncertainties and complexities on the environmental factors which imposed unparalleled impacts on the diversity distribution and ecological performance of coastal wetland ecosystem globally

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