Honors Chemistry

Dooner/CHS

Text Dependent Questions

“The Goldilocks Effect”

1. Why is Helium-4 also known as an “alpha particle”?
2. When two alpha particles combine, what is formed?
3. How long does a Beryllium-8 survive when two Helium-4 nuclei collide inside a star?
4. What does it mean to say that atomic nuclei “resonate”?
5. What is a MeV?
6. Explain how a “double Goldilocks effect” is responsible for the existence of both carbon and oxygen in the universe.