

# WHERE DO CHEMICAL ELEMENTS COME FROM?

Video:

1. Which element(s) are present in a star's early life?
2. Where does the heat and light of a star come from?
3. How does a star form carbon? Oxygen?
4. Why is the formation of carbon, nitrogen, and oxygen important?
5. What happens when a star forms too much iron? Why does this happen?
6. What is created during a supernova explosion?

Chematters Article:

7. What chemical element is the primary constituent of a young star?
8. Name the stellar process in which the fusion of hydrogen produces other elements.
9. Why is iron the heaviest element that can be produced in stars?
10. What are the two opposing forces at work as fusion takes place in stars?

11. What name is given to the explosion of a star?

12. Neutron capture produces what kind of elements in a star?

13. Name the material sent into space by a supernova.

14. What does a spectroscope do to light?

**Summary:** In your own words, describe how the chemical elements were formed.