

Name:

Date:

Hour:

THE DISPERSION OF ELEMENTS

1. What astronomical event scatters elements throughout the universe?
2. List the two ways all of the stuff on Earth and around us was made.
3. Identify where the most common elements like carbon and nitrogen are created.
4. List ten main characteristic of stars that produce the heaviest elements like iron.
5. Which element does our blood contain? Our soil? Where were they produced?
6. How would the earth be different if fusion in stars and supernova explosions did not create the elements on Earth?
7. Is space empty? If not, describe what is in space.
8. What does ISM stand for?
9. Describe how supernova explosions change the chemical composition of the ISM?
10. How often do supernova explosions occur?
11. List the heevey elements that supernova explosions are responsible for synthesizing
12. Compare the first stars in our universe with modern and future stars.
13. What effect do shockwaves have on the ISM?
14. How long after the initial explosion may a supernova remnant still grow? How large may it become?
15. What eventually becomes of the ejecta, or tiny matter created by the supernova?
16. Have scientists determined which supernova explosion created the heavy elements in our solar system? Explain.
17. Does the ISM always remain the same?