

Directed Reading A

Section: A Solar System Is Born

8. Like planets, the moons and many comets and small bodies are part of our

THE SOLAR NEBULA

- _____ 9. Nebulae are found in the regions of space
- | | |
|----------------------------------|-------------------|
| a. outside the solar system. | b. inside stars. |
| c. outside the force of gravity. | d. between stars. |
- _____ 10. Nebulae are mixtures of gases and
- | | |
|------------|----------|
| a. water. | b. dust. |
| c. oxygen. | d. iron. |
- _____ 11. Which elements are mostly linked to the gases of nebulae?
- | | |
|-------------------------|-------------------------------|
| a. hydrogen and helium. | b. carbon dioxide and helium. |
| c. hydrogen and oxygen. | d. carbon dioxide and oxygen. |
12. The matter of a nebula is held together by the force of

- _____ 13. A measure of the average kinetic energy in an object is

14. How do gravity and pressure keep a nebula from collapsing?

OPTIMAL THE BALANCE

15. What two forces can upset the balance between gravity and pressure in a nebula?

16. When a nebula collapses, small regions in the cloud called

_____ are pushed together.

17. The cloud of gas and dust that formed our solar system is called the