

1. How many stars are there in the Milky Way galaxy? \_\_\_\_\_
2. By star standards, our sun is \_\_\_\_\_.
3. How much more massive is the Sun than all the planets combined? \_\_\_\_\_
4. How many Earths would fit in the Sun? \_\_\_\_\_
5. For each planet, what 2 forces balance each other to keep them in orbit?
  - 1) \_\_\_\_\_
  - 2) \_\_\_\_\_
6. For producing heat and light, how much more powerful is nuclear fusion than fire burning wood?  
\_\_\_\_\_
7. Where does nuclear fusion occur in the Sun? \_\_\_\_\_
8. What gas is found in the core of the Sun? \_\_\_\_\_
9. How hot is the core of the Sun? \_\_\_\_\_
10. What gas does fused hydrogen make? \_\_\_\_\_
11. What does the excess matter from the fusing of hydrogen turn into? \_\_\_\_\_
12. Matter the weight of a bowling ball changed into energy could supply the United States with energy for how long?  
\_\_\_\_\_
13. How many hydrogen bombs is equal to the Sun's energy output? \_\_\_\_\_
14. How long does it take energy from the core of the Sun to reach the surface of the Sun? \_\_\_\_\_
15. What is the Sun's surface called? \_\_\_\_\_
16. How many light bulbs equal the Sun's surface light output? \_\_\_\_\_
17. What are the dark spots on the Sun's photosphere called? \_\_\_\_\_
18. What are large solar flares called? \_\_\_\_\_
19. How long does it take light to reach Earth from the Sun? \_\_\_\_\_
20. What particles are found in the solar winds? \_\_\_\_\_
21. What is created when solar winds interact with Earth's magnetic poles? \_\_\_\_\_
22. How long does it take light from the Sun to reach Pluto? \_\_\_\_\_
23. How much longer will the Sun be alive? \_\_\_\_\_
24. What will the Sun swell to become when it begins to die? \_\_\_\_\_
25. What will the Sun shrink to become when it dies? \_\_\_\_\_