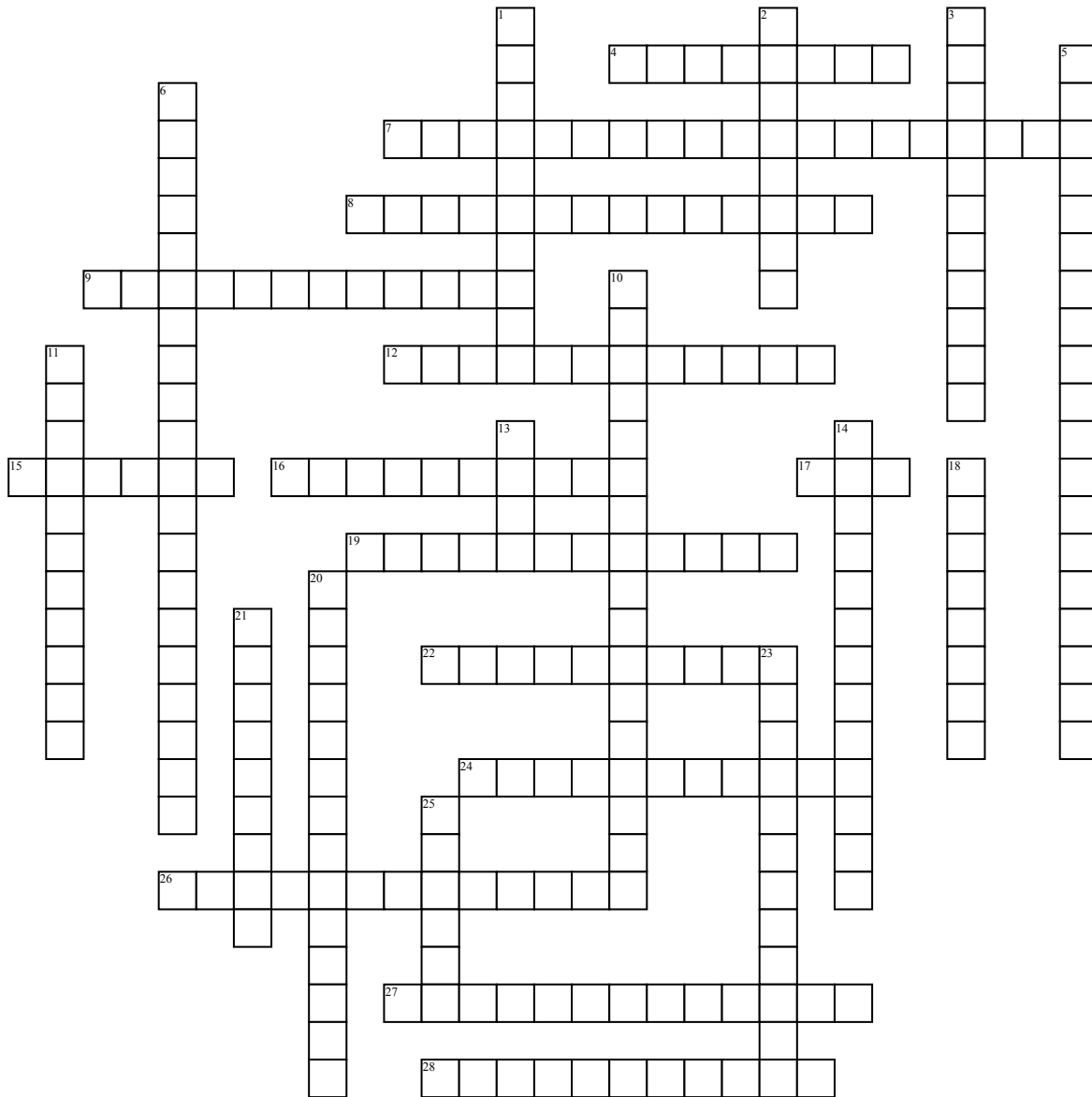


crossword puzzle for chapter 22



Across

- 4. a mound of hot plasma
- 7. large portion of the sun's surface, an extremely large mass of particles blows outward
- 8. atoms are free to move through this zone
- 9. a layer above the photosphere
- 12. the sunspots reach a peak about every eleven years
- 15. the chromosphere dissipates into this layer
- 16. the sun's corona becomes this
- 17. an average star
- 19. the light that is easy for us to see
- 22. 1000 times larger-one-millionth of a millimeter. thus, wave-length of light are extremely tiny.

- 24. the largest known prominence occurred in 1946. it reached a height of 483,000 km and was 113,000 km wide
- 26. clouds of plasma
- 27. a zone of where electromagnetic energy passes
- 28. a sudden energetic explosion of the sun's matter and emits burst of rays and particles

Down

- 1. one-trillionth of a meter or one-billion of a millimeter
- 2. dark spots on the sun's surface
- 3. this is the visible, light producing surface of the sun.
- 5. surfaces on the sun that make it look bumpy
- 6. such as radio waves, visible light, and X-ray

- 10. when the moon passes between the sun and the earth
- 11. a tool the astronomers use
- 13. an edge on the sun's disk
- 14. nuclei of hydrogen atoms combine under intense heat and pressure to form the nuclei of helium atoms
- 18. pointed masses of hot plasma
- 20. the entire span of EM waves emitted by the sun is the
- 21. anything having to do with astronomical objects
- 23. a tool that astronomers
- 25. dense and intensely energetic ionized particles