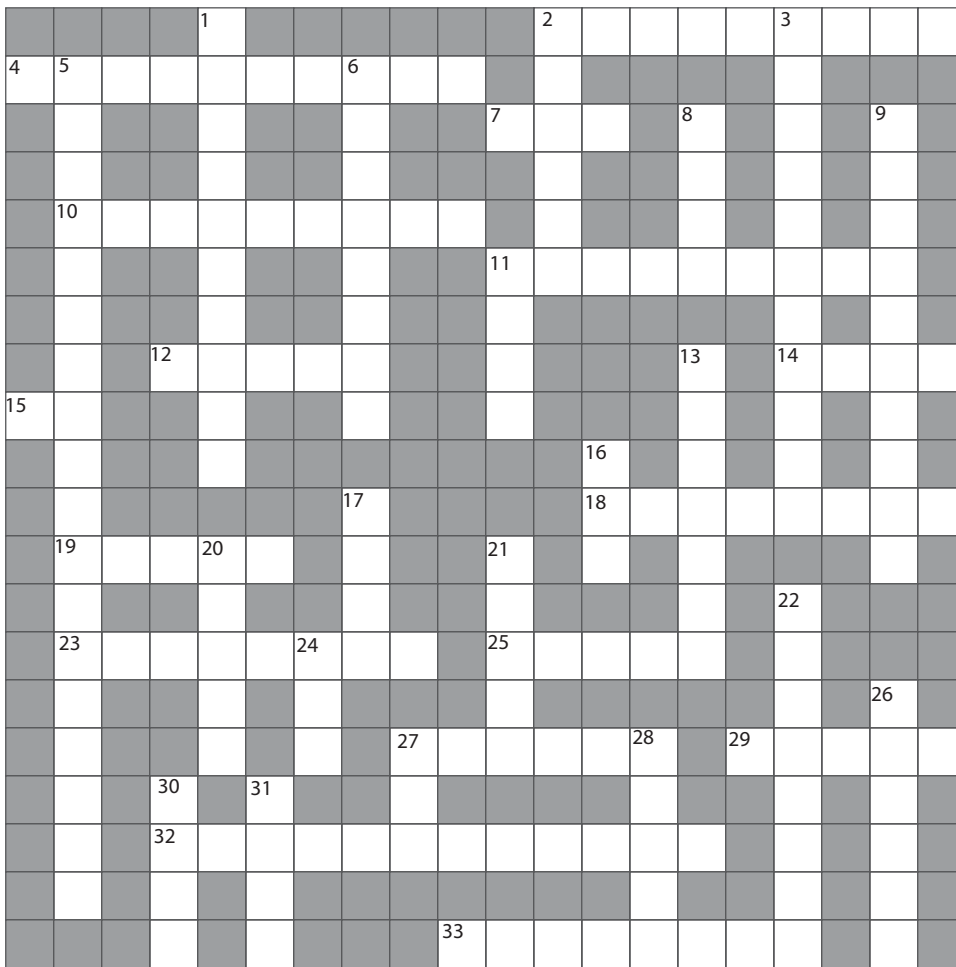


Beyond the Solar System



Across

2. An exploding star
4. A star that has exhausted almost all of its nuclear fuel and collapsed to a very small size.
7. A theory of the origin of the Universe (with 11 down)
10. Galileo used one to see craters on the Moon
11. Even light cannot escape its forces
12. The distance to even nearby stars is measured in _____ (with 28 down)
14. A constellation of the Zodiac is also known as a sun _____
15. The _____ diagram plots magnitude versus temperature of stars. (abbr.)
18. The brightness of a star as seen from Earth is called the _____ magnitude.
19. A Red _____ and a Red Super _____ are not main sequence stars.
23. The entire space occupied by matter and energy.
25. The temperature of a star is indicated by its _____
27. An enormous collection of stars clustered together.
29. A galactic cluster is known as a local _____
32. The space between the stars.
33. A type of nebula that absorbs ultraviolet radiation and gives off visible light.

Down

1. A type of nebula that bounces the light of nearby stars off of its dust and gases.
2. The shape of the Milky Way galaxy
3. A pulsar composed of degenerate matter. (two words)
5. A diagram that clearly shows the differences between the main-sequence stars and other stars.
6. The _____ magnitude of a star tells how much light it emits.
8. A type of nebula that does not emit light.
9. The largest type of star that results from a tremendous expansion of a massive main-sequence star.
11. See number 7 across.
13. The _____ effect causes a shift in the apparent color of a star due to its motion.
16. Even the closest stars to Earth are very _____ away.
17. A property of matter that gives the quantity of matter in an object.
20. Some people believe we will _____ travel to another solar system because the nearest one discovered with a planet that might sustain life is 20.5 light years away from us. At one million miles per hour it would take 15 million years to get there.
21. Our own _____ group contains 28 galaxies.
22. Our sun fuses _____
24. In about five billion years our yellow sun will become a _____ star.
26. The _____ telescope is located in outer space.
27. Our star is not primarily a solid or a liquid, it is a _____
28. The nearest star is light _____ away from us.
30. The _____ of a star determines its fate when it dies.
31. Twinkle, twinkle little _____; How I wonder what you are!