

Chapter 23

Use with Section 3

REINFORCEMENT

● Evolution of Stars

Circle the term in the puzzle that fits each clue. Then write the term on the line. In the puzzle, the terms read across or down.

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|---|---|---|---|---|---|---|---|---|---|---|---|---|
| E | I | B | L | A | C | K | H | O | L | E | N | S |
| H | N | E | U | T | R | O | N | S | T | A | R | T |
| R | M | A | I | N | S | E | Q | U | E | N | C | E |
| D | C | E | I | E | N | P | R | P | O | P | O | G |
| I | O | S | E | B | L | U | E | E | D | T | H | I |
| A | L | A | T | U | M | A | S | R | S | C | A | A |
| G | O | Y | E | L | L | O | W | G | N | B | E | N |
| R | R | C | O | A | N | V | E | I | R | T | E | T |
| A | W | H | I | T | E | D | W | A | R | F | D | I |
| M | N | T | S | U | P | E | R | N | O | V | A | O |
| E | N | F | U | S | I | O | N | T | E | R | G | Y |

1. A _____ is a large cloud of dust and gas that becomes a star.
2. A graph that shows the relationship between a star's absolute magnitude and temperature is an _____.
3. A star that is a _____ uses helium for fuel and has expanding outer layers.
4. The _____ of atoms powers the sun and other stars.
5. The temperature and brightness of stars are indicated by _____.
6. About 90 percent of the stars, including our sun, are _____ stars.
7. A _____ is produced when the outer core of a star explodes after the core collapses.
8. The hottest, brightest stars in the main sequence are a _____ color.
9. Medium hot and bright stars like our sun are _____ in color.
10. When a star has no fuel left and its outer layers escape into space, it is a _____.
11. As heavier and heavier elements are formed by fusion, a star expands into a _____.
12. When a collapsed core becomes so dense only neutrons can exist there, a _____ is formed.
13. A _____ is so dense that nothing, including light, can escape its gravity field.
14. Write the remaining letters in the puzzle to reveal a famous scientist's theory.
