

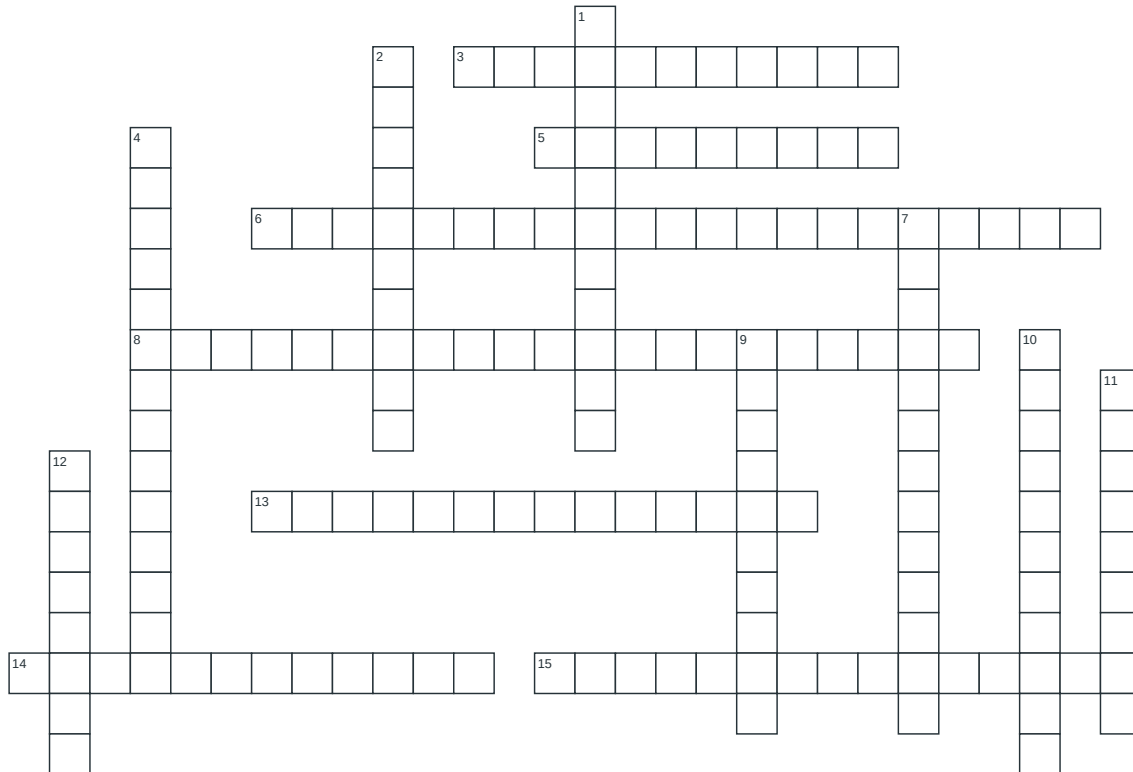
Stars and Stellar Life Cycles Crossword

Medium | 15 clues | Student Worksheet

Name: _____

Date: _____

Directions: Use the clues to complete the grid. Omit spaces, punctuation, and hyphens.



ACROSS

3. Extremely dense remnant that can form after a massive stellar core collapses.
5. Region where gravity is so strong that light cannot escape from within its event horizon.
6. An explosion associated with collapse of a massive star's core
8. Contraction of matter under its own gravitational attraction.
13. Compact object left after a star sheds or collapses its outer layers.
14. Long-lived stellar stage when a star fuses hydrogen in its core.
15. Expelled gas surrounding the remnant of a lower-mass star.

DOWN

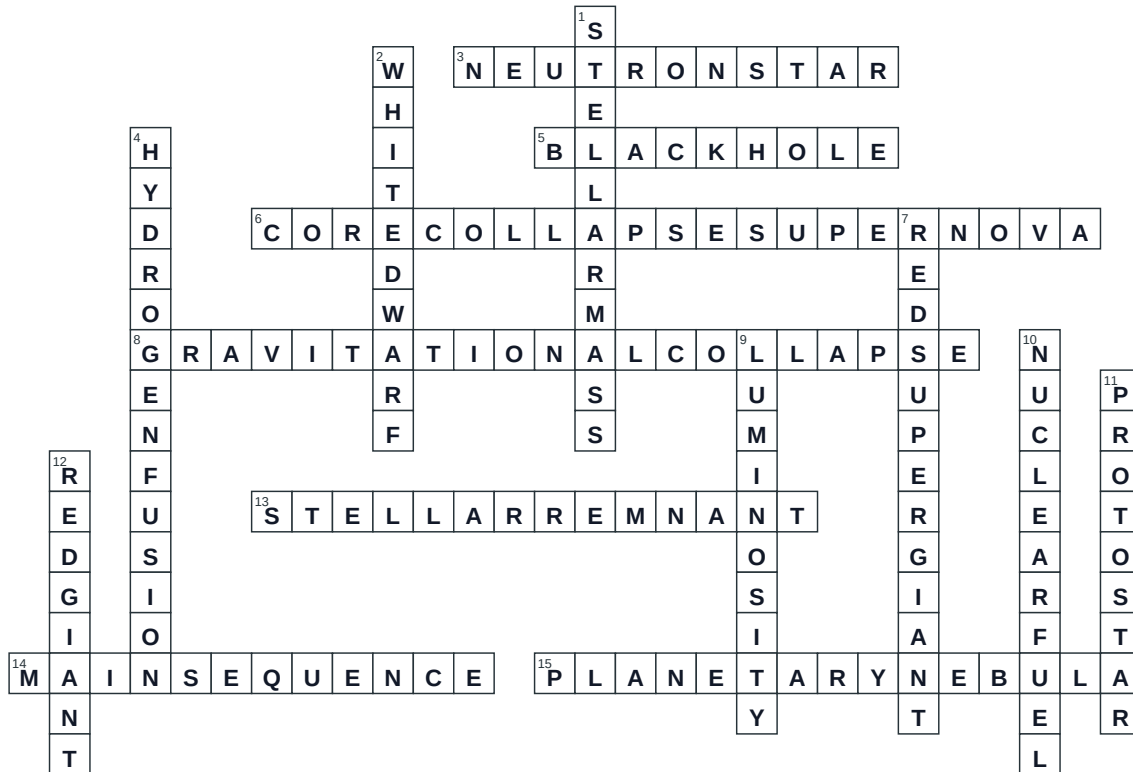
1. Amount of matter in a star, a major factor in its evolution.
2. A dense stellar remnant that gradually cools
4. Nuclear process that combines hydrogen nuclei to form helium and release energy.
7. Very large, cool late stage of a massive star.
9. Total energy emitted by a star per unit time
10. Material in a star that can release energy through nuclear reactions.
11. Early stage in star formation before sustained hydrogen fusion begins
12. Expanded late stage of a lower- or intermediate-mass star.

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Medium | 15 clues | Teacher Answer Key

TEACHER ANSWER KEY

Completed grid and numbered answers. Spaces and punctuation are omitted in the grid.



ACROSS

3. Neutron star
5. Black hole
6. Core-collapse Supernova
8. Gravitational collapse
13. Stellar remnant
14. Main sequence
15. Planetary nebula

DOWN

1. Stellar mass
2. White Dwarf
4. Hydrogen fusion
7. Red supergiant
9. Luminosity
10. Nuclear fuel
11. Protostar
12. Red giant