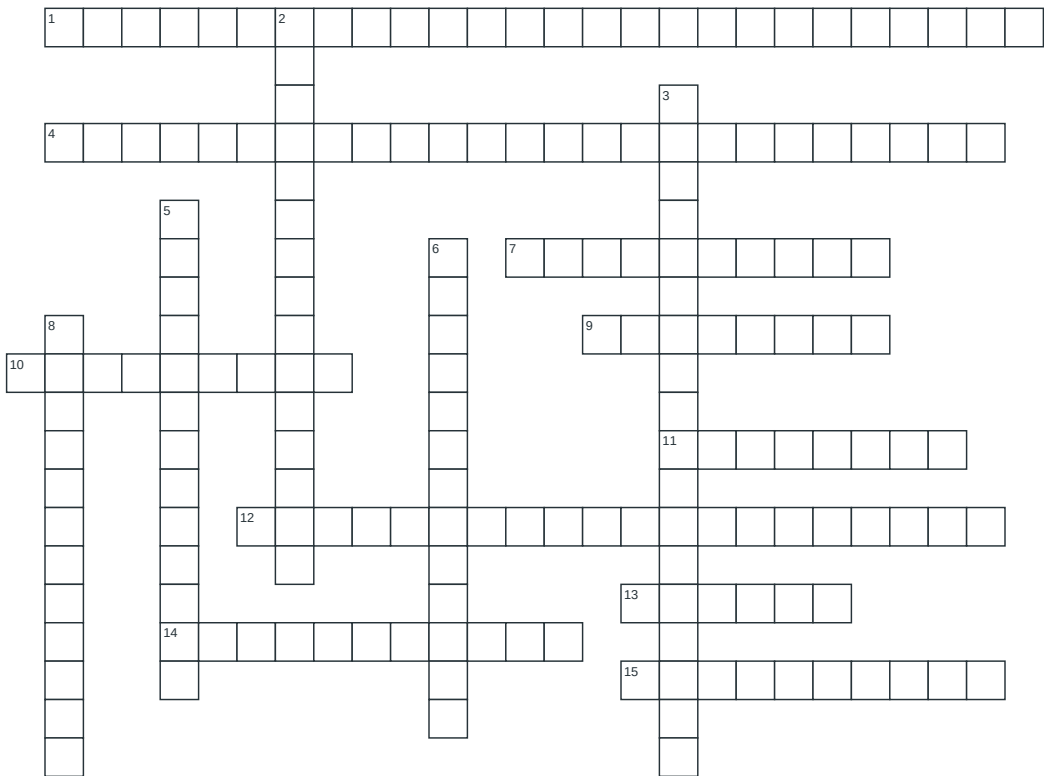


Galaxies and the Universe Crossword

Medium | 15 clues | Student Worksheet

Name: _____ Date: _____

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



ACROSS

- 1. Two galaxies lie far outside our local gravitational group. The farther one has greater redshift. Which model is this consistent with
- 4. Radiation left from the early universe and observed across the sky
- 7. Name for the component associated with the observed accelerated expansion of the universe.
- 9. Measure of a light-year
- 10. Distance light travels in one year.
- 11. Shift of spectral features toward longer wavelengths.
- 12. Increase in observed wavelength associated with the expansion of space
- 13. A gravitationally bound system of stars, gas, dust, and dark matter

ACROSS (continued)

- 14. Information gathered with senses or scientific instruments
- 15. Matter inferred from gravitational effects but not observed through emitted light

DOWN

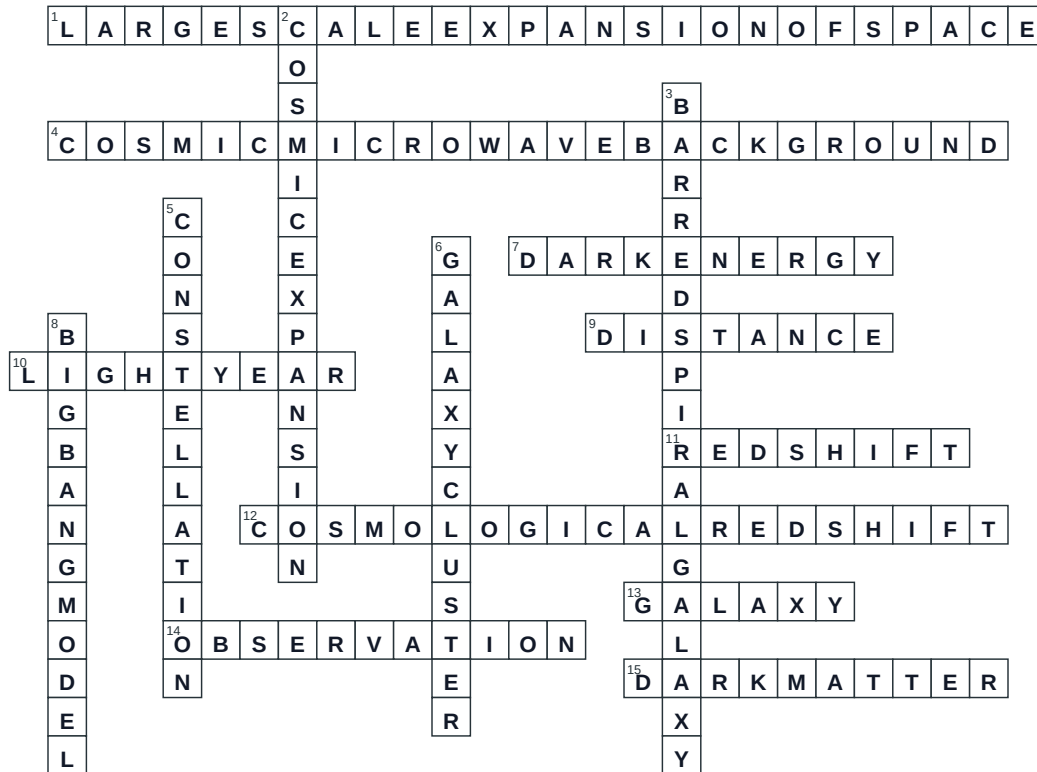
- 2. Increase in large-scale distances between unbound regions of the universe.
- 3. Spiral galaxy whose arms extend from a central bar-shaped region
- 5. Recognized pattern of stars on the sky; its stars need not be near each other.
- 6. A group of galaxies bound by gravity
- 8. Evolution from an early hot, dense universe that has expanded

Galaxies and the Universe Crossword

Medium | 15 clues | Teacher Answer Key

TEACHER ANSWER KEY

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



ACROSS

1. Large-scale Expansion Of Space
4. Cosmic Microwave Background
7. Dark energy
9. Distance
10. Light-year
11. Redshift
12. Cosmological Redshift
13. Galaxy

ACROSS (continued)

14. Observation
15. Dark Matter

DOWN

2. Cosmic expansion
3. Barred Spiral Galaxy
5. Constellation
6. Galaxy Cluster
8. Big Bang Model