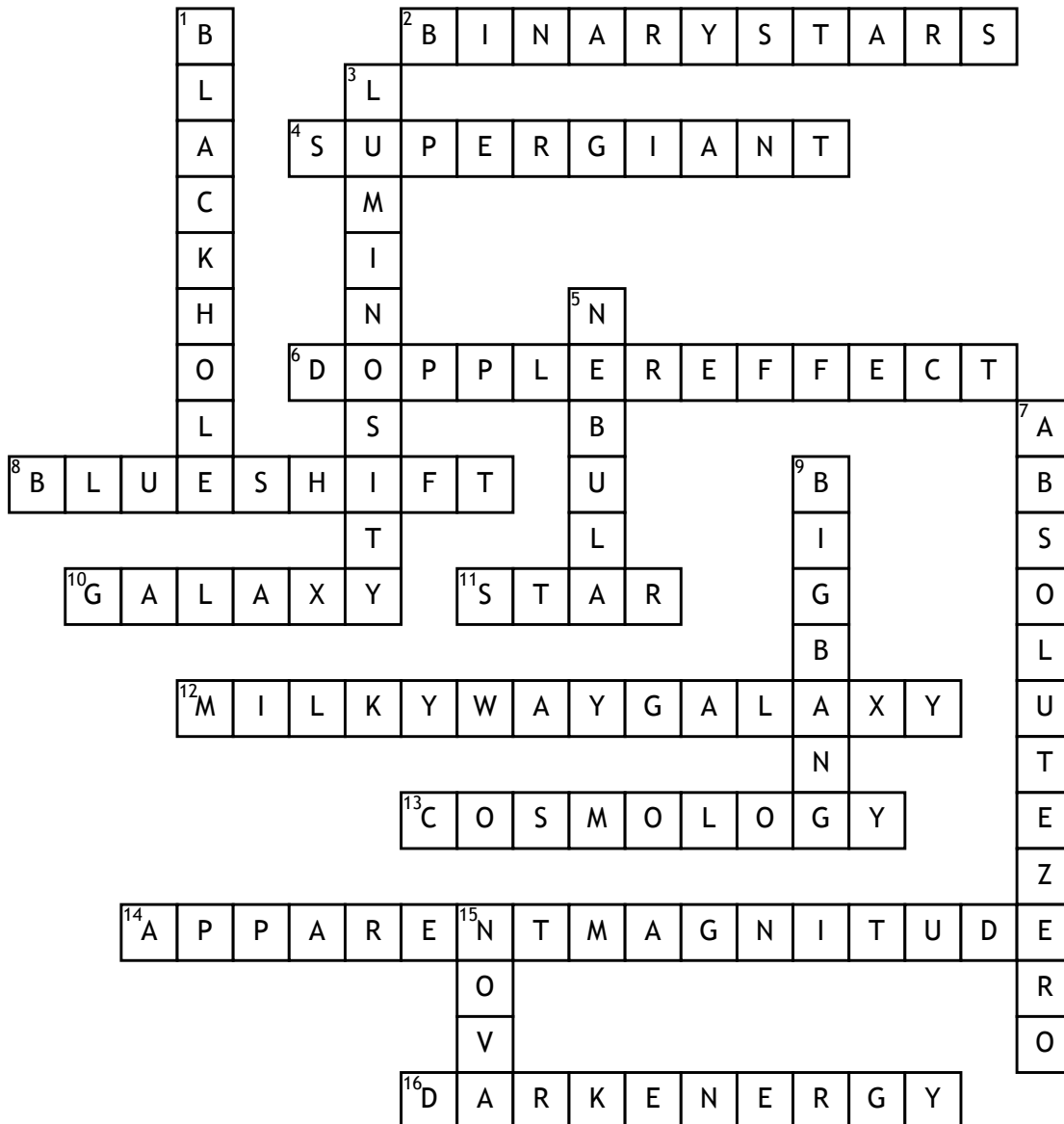


Name: \_\_\_\_\_

Date: \_\_\_\_\_

# Stars, Galaxies and the Universe



## Across

2. Pair of stars that revolve around each other and are held together by gravity.
4. Nightly luminous stars from main sequence stars that are more massive than the sun, which becomes larger than giants in their third stage.
6. An observed change in the frequency of a wave when the source or observer is moving.
8. The colors in the spectrum of a side moving earth are shifted slightly toward blue.

10. A collection of stars, dust, and gas bound together by gravity.

11. A large celestial body that is composed of gas and that emits light.

12. A spiral galaxy in which the sun is one of hundreds of billions of stars.

13. The study of the origin, properties, and evolution of the universe.

14. The brightness of a star as seen from earth.

16. Unknown material

## Down

1. an object so massive and dense that even light cannot escape its gravity.

3. The total amount of energy stars give off each second.

5. A large cloud of gas or dust in interstellar space; a region in space where stars are born.

7. The coldest temperature possible.

9. 14 billion years ago, a sudden event that sent all matter and energy outward in all directions.

15. A star that suddenly becomes brighter.