

# HERTZSPRUNG-RUSSEL DIAGRAM

/25

NAME \_\_\_\_\_

1. What 3 types of stars are found in the main sequence? (3pts)

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2. What is the scientific word for brightness?

\_\_\_\_\_

3. Does the horizontal axis increase or decrease in temperature?

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4. What stars become supernovas or black holes?

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5. What type of star will our sun become first? Second? (2pts)

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6. Which is brighter a red giant or a white dwarf?

\_\_\_\_\_

7. Which is hotter a red giant or a white dwarf?

\_\_\_\_\_

8. Bigger stars are generally

- a. More luminous
- b. More colorful
- c. Hotter
- d. Always going to become black holes

9. Which star types are "living" (fusion and gravity equal, thus not changing size)? (3pts)

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10. Where are most stars located in this diagram?

\_\_\_\_\_

11. What do red giants become?

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12. What star types become red giants? (2pts)

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13. Which types of stars last millions of years? Why? (2pts)

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14. Which types of stars last billions of years? Why? (2pts)

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15. Which types of stars last hundreds of billions of years? Why? (2pts)

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16. Most stars we have documented are currently in the main sequence. What does this tell us about the relative age of our galaxy?

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