

## Red Giants Quiz: Trivia Questions and Answers

1. Why does a red giant star look red?

- It is much cooler than other stars
- It is much larger than other stars
- It is much hotter than other stars

2. What is the first stage of a main sequence star turning into a red giant?

- Hydrogen fuel depletes
- Helium fuel depletes
- The core explodes in a supernova

3. When were red giants first identified?

- 20th century
- 19th century
- 18th century

4. How many distinct types of cool stars are there?

- 3
- 4
- 2

5. How many branches exist in stellar evolution?

- 3
- 4
- 2

6. What is the red-giant branch?

- A stage that follows the main sequence for low- to intermediate-mass stars
- A region of the Hertzsprung–Russell diagram populated by evolved cool luminous stars
- A stage of stellar evolution that immediately follows the red giant branch in stars whose masses are similar to the Sun

7. What is the horizontal branch?

- A region of the Hertzsprung–Russell diagram populated by evolved cool luminous stars
- A stage that follows the main sequence for low- to intermediate-mass stars
- A stage of stellar evolution that immediately follows the red giant branch in stars whose masses are similar to the Sun

8. What is the asymptotic giant branch (AGB)?

- A stage of stellar evolution that immediately follows the red giant branch in stars whose masses are similar to the Sun
- A region of the Hertzsprung–Russell diagram populated by evolved cool luminous stars
- A stage that follows the main sequence for low- to intermediate-mass stars

9. The AGB phase is divided into how many stages?

- 3
- 2
- 4

10. Which type of stars does not exist?

- Red dwarfs
- Green dwarfs
- White dwarfs

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### Right answers

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