

Practice Quiz: Medium Star Life Cycles + Earth Formation

1. What process gives stars their energy?
2. What is a star's main fuel?
3. What new substance is produced inside a star when that fuel is used up?
4. Put these star life stages in order, from earliest to latest:
Planetary Nebula, Main Sequence Star, Protostar, Black Dwarf, Nebula, Red Giant, White Dwarf,
5. Describe the source(s) of energy for each of these stages in a star's life:
 - a. Red giant
 - b. White dwarf
 - c. Main sequence star
6.
 - a. How is a star's temperature related to its mass?
 - b. Explain why a star's temperature is related to its mass in this way.
7. List the common star colors from hottest to coolest.
8. Where does the helium in a medium star end up, and why does it go there?

9. When our Sun becomes a red giant why will it turn red?

10. When our Sun becomes a red giant why will it get bigger?

11.
 - a. When our Sun becomes a white dwarf, what will happen to its temperature?

 - b. Why will that happen to its temperature?

12. Approximately how old is the Sun?

13. Approximately how many years does the Sun have before it turns into a red giant?