

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

The surface gets cooler

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

The core heats up. Gas pressure pushes the outer layers outward.

11. a. When our Sun becomes a white dwarf, what will happen to its ^{surface} temperature?

Heats up [It turns from red to white]

b. Why will that happen to its temperature?

Gravity compresses it

12. Approximately how old is the Sun?

4.6 billion years

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

5 billion years