

Name:

Directions: Model the life span of the Sun, explain the role of nuclear fusion in the core, and show how energy moves from the core to Earth as radiation.

Early in lifetime

Middle of lifetime

End of lifetime

Nuclear Fusion



Explain how the mass of a star affects the lifetime and kinds of elements produced by fusion.

Model of a Star Checklist

Part 1: Model of the lifespan of the sun:

- Diagram the sun's life including labels for each stage
- Include information about how mass and temperature change throughout a star's lifetime (visit Starinabox.com for additional information)
- Why does the color of our star change during its lifetime?

Part 2: Nuclear Fusion:

- Draw the nuclear fusion reaction with the reactants (what goes in) and products (what is produced)
- How does the amount of Hydrogen and Helium change during our sun's life?

Part 3: Explanation

- How does a star's mass affect how long it exists?
- How are different elements made? How do we know?
- What element is formed by fusion in our sun?

