

Life Cycle of Stars

Use the “Life Cycle of a Star” reference sheets and the internet to help draw, label sketches and answer the following questions.

1. In your notebook diagram and label the life cycle of a low-medium mass star.
2. In your notebook diagram and label the life cycle of a massive star.

Questions

1. How does the size of a star affect the life cycle of the star?
2. How does nuclear fusion affect the life cycle of a star?
3. What is the significance of the life cycle of stars for our solar system?
4. Can the life cycle of a star be studied directly? Explain
5. Explain what will happen to the Sun as it ends its main-sequence?
6. Explain what happens to the most massive stars when they end their main-sequence?
7. Grab a chromebook with a partner and figure out how all the elements on the period table besides Hydrogen are formed. What types of stars form elements? During what stage do certain elements form?
8. Research the nebular theory, draw and explain how our solar system formed.
9. Why do terrestrial rocky planets form closer to the Sun and gaseous planets form farther away?