

# MORE ABOUT STARS

## Activity 1 – Life Cycle of Stars

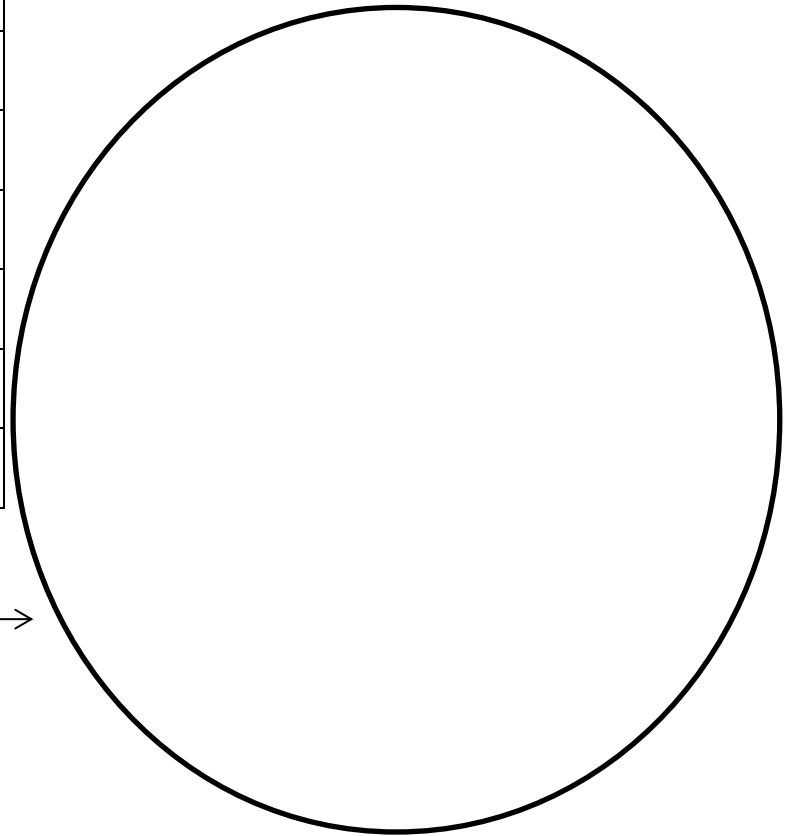
Directions – read the article about titled The Life Cycle of Stars to complete the diagram below and answer the questions that follow.

1. What determines a star's life cycle?
2. The \_\_\_\_\_ the mass, the \_\_\_\_\_ the life cycle
3. What stage is a star in when it becomes stable for millions or billions of year?
4. All stars evolve the same way up to the \_\_\_\_\_ or \_\_\_\_\_ phase.
5. Explain the main steps for the life cycle of low mass stars.
6. Explain the main steps for the life cycle of medium mass stars.
7. Explain the main steps for the life cycle of high mass stars.
8. In the space below, draw a diagram showing the life cycle of high mass and low mass stars. Use the article to help you correctly create the model (diagram). Use arrows and pictures in the diagram to show the different stages.

## Activity 2 – Our Star, the Sun

Directions – Use the amazing textbook of knowledge (red textbook) pages 519 - 523 to discover information about the star closest to us, the Sun.

Layer	Description
Corona	
Chromosphere	
Photosphere	
Convective Zone	
Radiative Zone	
Core	



Draw and label the layers of the sun using this outline.

1. How long do scientists believe the sun has been shining?
2. What was Einstein's famous formula?
3. Explain how Einstein's formula explained the source of energy for the Sun (and all stars).
4. What is nuclear fusion?
5. Why does it take energy created in the Sun's core millions of years to reach the surface?
6. How long does it take light from the surface of the Sun to reach Earth?
7. What causes sunspots?
8. What causes solar flares?