

Name: \_\_\_\_\_

Date: \_\_\_\_\_ Period: \_\_\_\_\_

### Life Cycle of Stars Flipbook Assignment:

#### Materials:

1. 2 pieces of White 8 1/2 x 11" paper
2. Color pencils or markers
3. Life Cycle of Stars Graphic notes/ textbook

#### Procedure: **STAR TYPE:** \_\_\_\_\_

1. Divide the paper in half long-ways
2. Divide the paper in half again and then again (8 rectangles on the paper)
3. Draw pictures of a star from birth to death as it goes from stage to stage.
4. Cut out pages and staple so that it flips in order from birth to death.

#### Completion:

1. Gather in groups of 3 (one for each mass type)
2. Share each flip book explaining the stages to the other two
3. Complete the worksheet provided.

### Life Cycle of Stars

1. In the life cycle of a star, which mass(es) begin as a Nebula? \_\_\_\_\_
  2. Which mass(es) end as a black hole? \_\_\_\_\_
  3. The fuel for all stars is what gas? \_\_\_\_\_
  4. What happens that initiates the birth of a star? \_\_\_\_\_
  5. Explain what happens in nuclear fusion? \_\_\_\_\_
  6. What is going to happen to our Sun's magnitude and temperature when it goes to its next stage? \_\_\_\_\_
  7. What is the final stage of our Sun's life? \_\_\_\_\_
  8. What will happen to our Sun's magnitude and temperature when it goes to its final stage? \_\_\_\_\_
  9. What determines which star will go supernova? \_\_\_\_\_
  10. What two forces cause the changes that occur in a star? \_\_\_\_\_
  11. What determines the strength of those two forces? \_\_\_\_\_
  12. Where would you find a Low mass main sequence star on the H-R diagram? \_\_\_\_\_
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13. Which massed star is able to fuse heavier elements in its core before it dies? \_\_\_\_\_

14. Rank the stars in order from LONGEST life to SHORTEST life. \_\_\_\_\_

15. On the H-R diagram below using three different colors, draw lines showing stars in each mass going through their life stages. Be careful to think of Temperature and Magnitude as they change.



