

THE LIFE OF A STAR

Purpose

This activity invites you to think about what you already know about stars before you watch the main lecture video for this lesson. We will be revisiting the life cycle of stars later in an activity called Star Comics.

Practices

Causation

Try to use the language of causation in this lesson wherever possible (words such as contribute, precede, allow, bring about). While this activity is not explicitly about cause, the lifecycle of a star will help you think about cause and effect.

Process

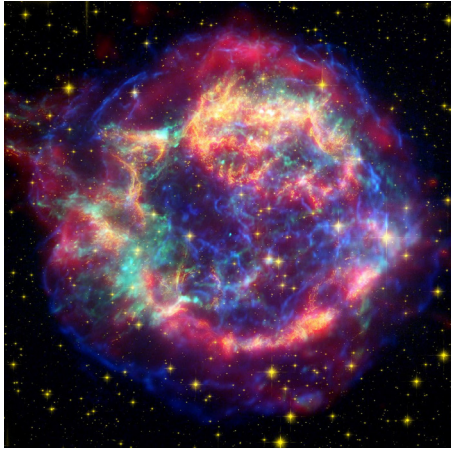
Look at the Life of a Star Worksheet images of the different stages in the life of a star. Based on your knowledge and intuition, use the worksheet to arrange the images from the beginning to the end of the life of a star. You probably know more than you think you do. You have only 5 minutes so make your best guess (don't worry; you'll dig into how stars form in more detail soon). As you arrange the images, discuss with the people next to you the differences among them and what those differences might indicate about how old the star is.

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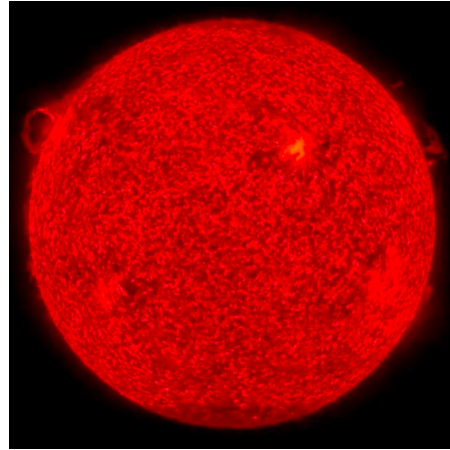
Name: Date:

Directions: Place the images in the correct order from the birth of a star to its death. Briefly describe what stage in the lifecycle of a star is represented in each image.

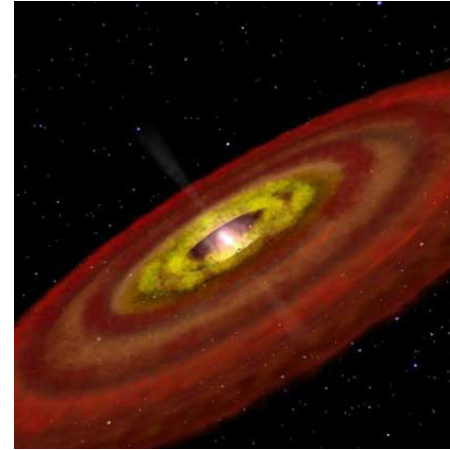
A



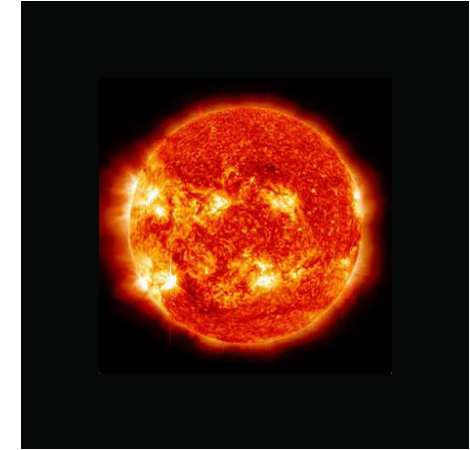
B



C



D



1.

2.

3.

4.

Sources: A: O. Krause (Steward Obs.) et al., SSC, JPL, Caltech, NASA B: Daniel Huber, University of Sydney C: DG Tau artist's conception, W.M Keck Observatory D: EIT - SOHO Consortium, ESA, NASA