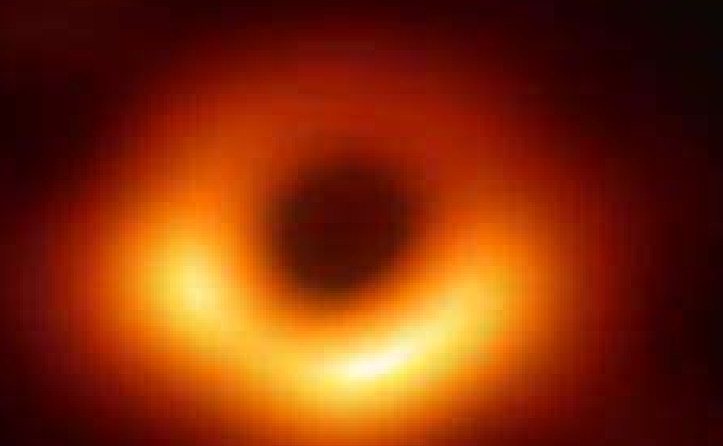


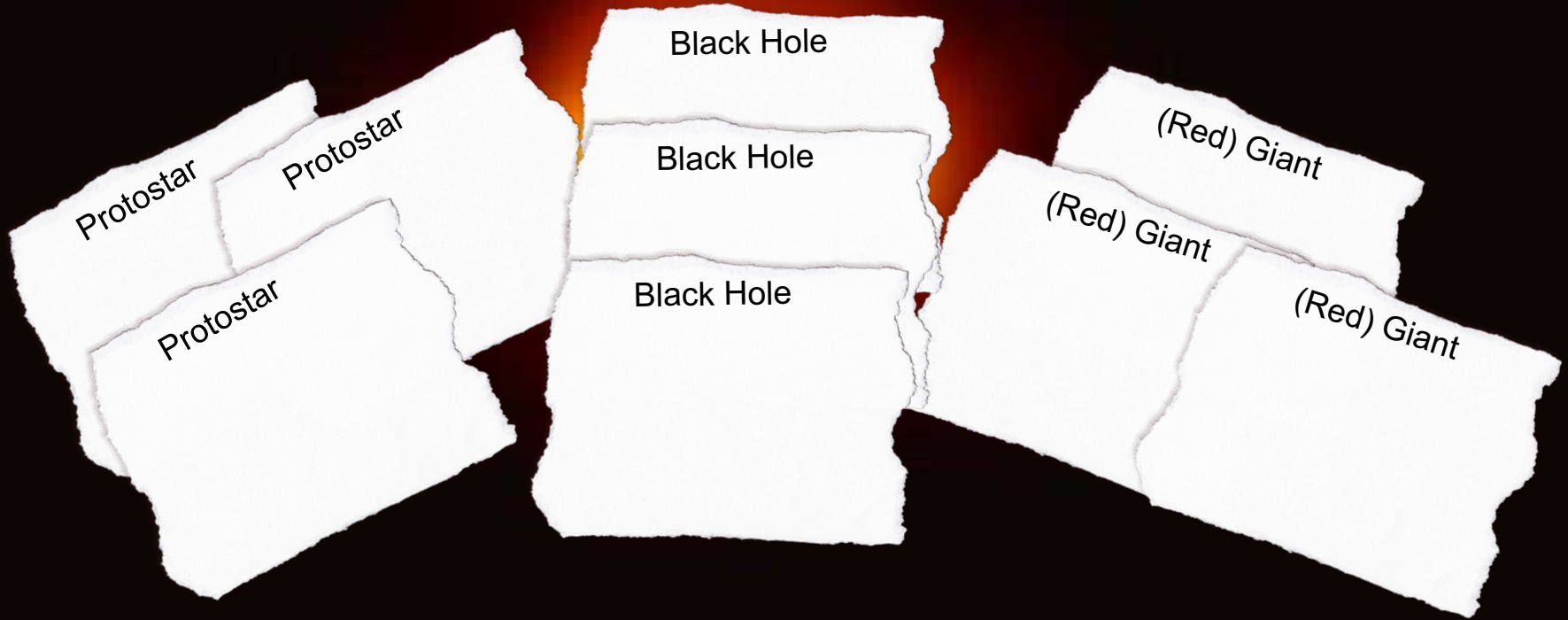
4.7 Star Cycle



Create a model of the star cycle

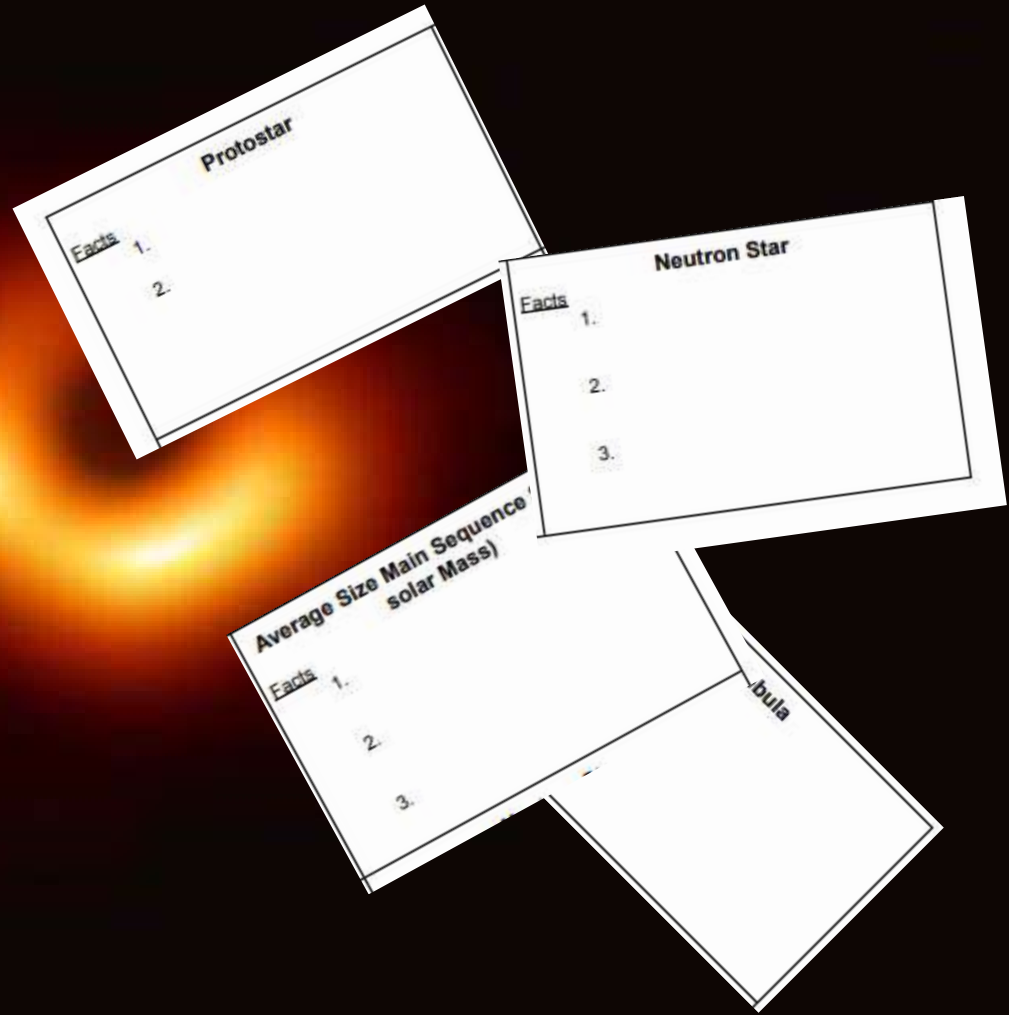
Share Your Research

In the middle of the table group all of your facts for the same stage together.



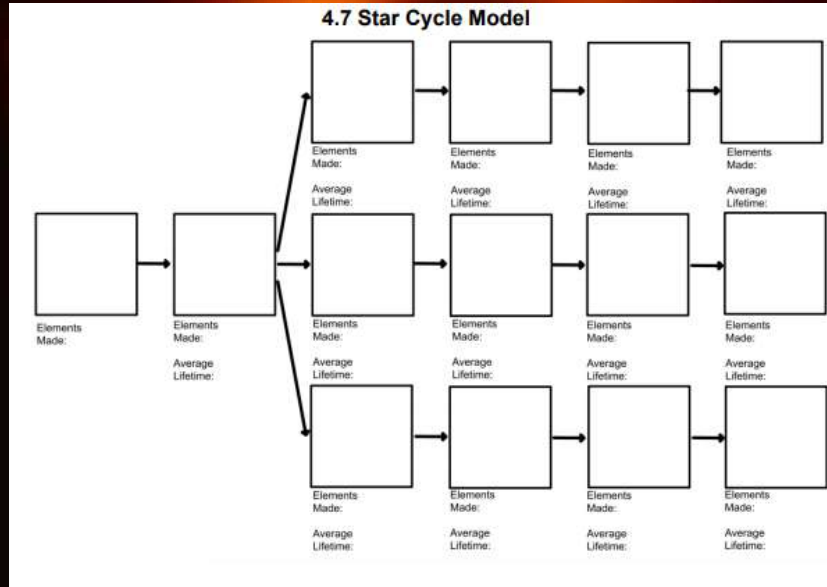
Master Facts

1. Get a set of master fact cards from the lab supply or teacher.
2. Together as a group write a final set of facts for each stage.
3. Your facts should include **elements**, if any are made from fusion AND the **average lifetime** (From 4.6)
4. Recycle your scraps of paper from your research.



Make your model

Use your cards to build the star cycles. You will have 3 different cycles depending on the mass of the star. Your model should fit into the chart shown below. You will need to use some cards more than once.



Test Your Model

1. Open the website [Star in a Box](https://starinabox.lco.global/), link found in schoology
2. Open the Lid in normal setting
3. Test 3 different main sequence star masses to see if your model matches the Star in a Box, make changes to your model if needed.

Mass 1 x Sun

Mass 20 x Sun

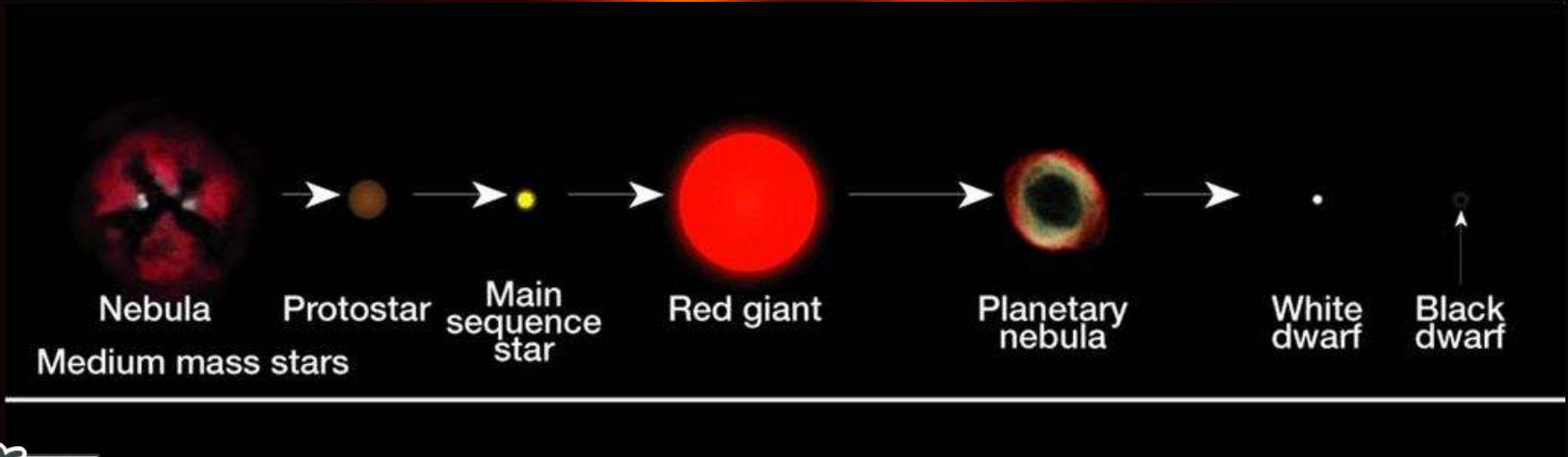
Mass 40 x Sun



Our Star, The Sun's Cycle

Drag the **Yellow flag** to the stage where the sun is fusing hydrogen into helium

Drag the **Red flag** to the stage where the Sun has run out of hydrogen and is fusing helium into carbon.

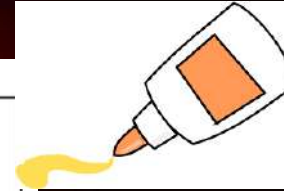
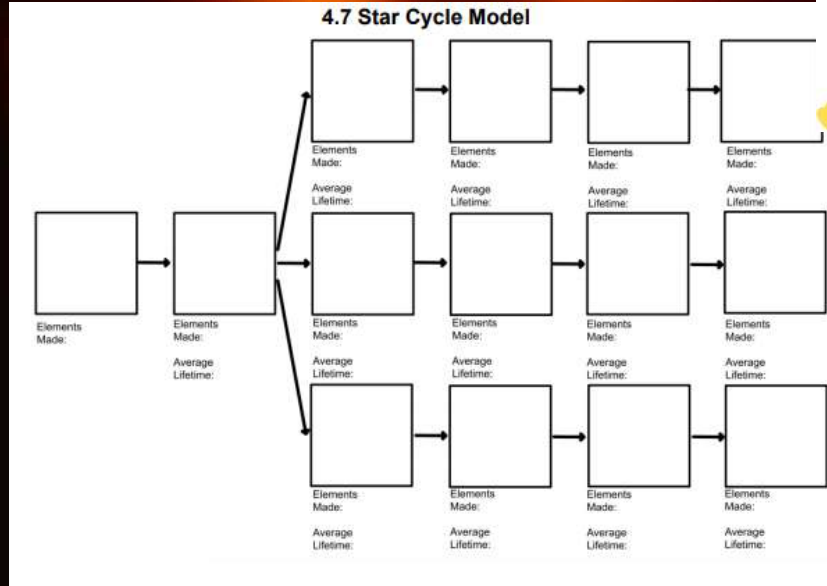


Students, drag the icons!



Finalize your model

1. Check your model with a teacher, take a picture, and complete the notebook page.
2. Label which cycle our sun will take.



Our Sun's Life and Death.

