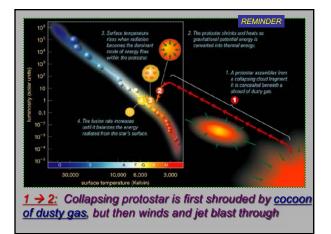


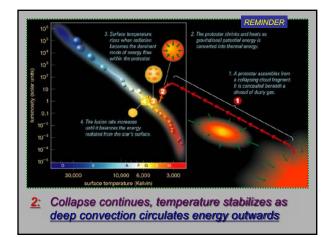
Things to do

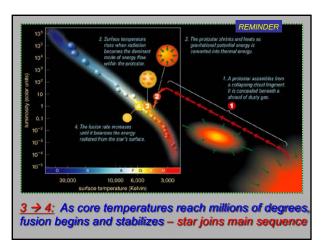
- Read Chap17 'Star Stuff', with 17.2 'Life as Low-Mass Star' covering today's lecture
- Then read 17.3 'Life as High-Mass Star' for next class ... look over 18.3 Black Holes
- Homework #6 due today, new HW #7 passed out ... and overview on evolution
- Next class on <u>Tues</u> March 7 meets in Fiske Planetarium – go there <u>directly</u>. Tour of galaxies and massive stars ... and "Black Holes" program

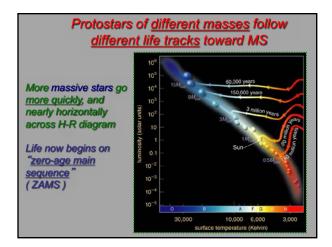


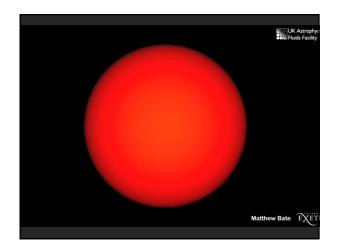


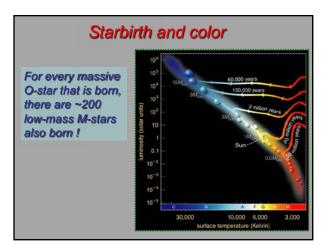


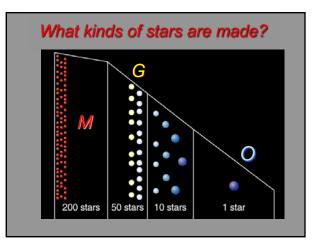


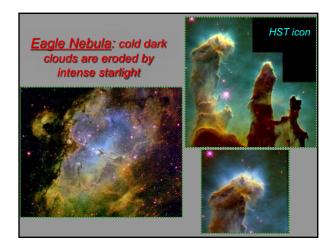


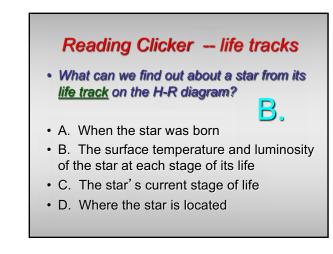


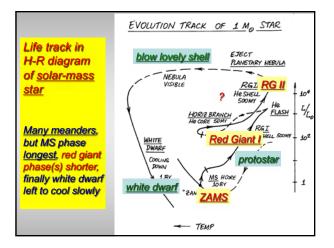


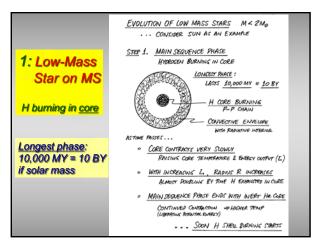


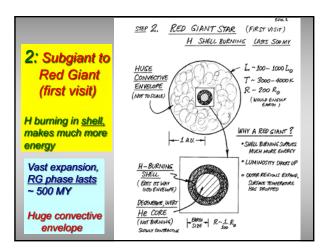


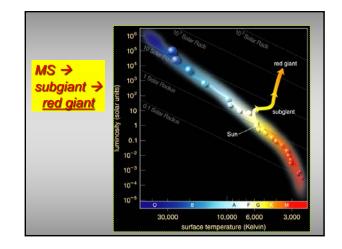












Without Fusion, the Core Starts to Contract Helium has built up in the core RED GIANT Temperatures not hot enough to fuse helium (100 million K needed). Helium in the collapsing core

With fusion no longer occurring in the core, gravity causes core contraction (collapse) Core temperature starts to heat up

Layer just above the core must contract also (and heat up)

Now hot enough for hydrogen fusion in that layer

Hydrogen "shell fusing" pushes oute layers of the star out



