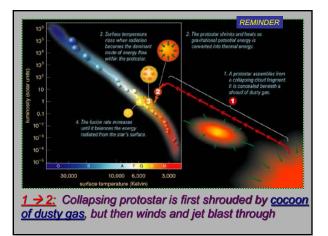
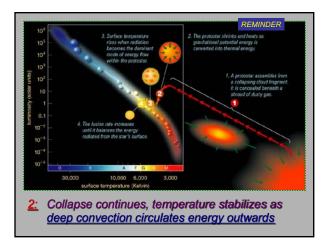


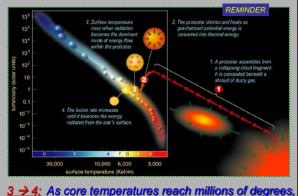


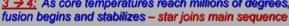
## Things to do

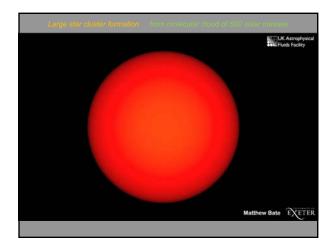
- Read Chap17 'Star Stuff', with 17.2 'Life as Low-Mass Star' covering today's lecture
- Then read 17.3 'Life as High-Mass Star' for next class ... look over 18.3 Black Holes
- Homework #6 due today, new HW #7
  passed out
- Overview on Stellar Evolution still available
- Next week: Observatory Night #5 on Tues, Fiske Planetarium on Thur









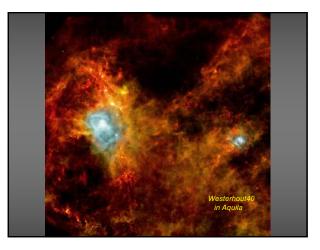








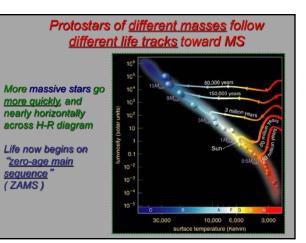


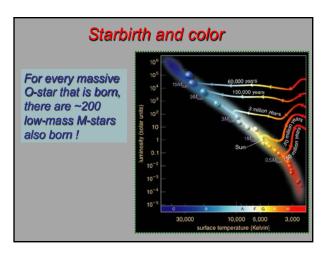












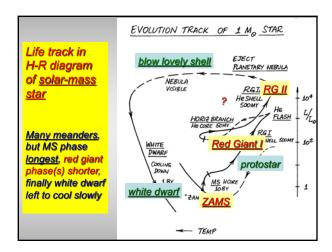


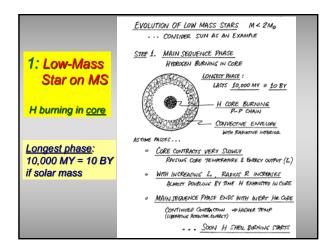
## Reading Clicker -- life tracks

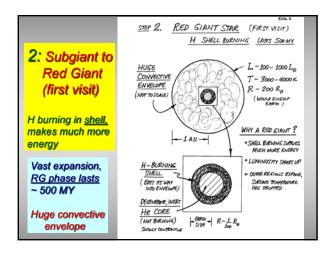
• What can we find out about a star from its <u>life track</u> on the H-R diagram?

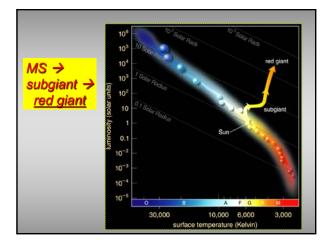


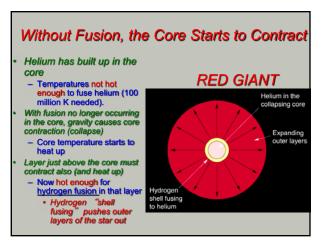
- A. When the star was born
- B. The surface temperature and luminosity of the star at each stage of its life
- C. The star's current stage of life
- D. Where the star is located











## **Red Giants**

- Thermostat is broken – No more fusion in the core!
- As core contracts, hydrogen SHELL fuses faster and faster – more energy created
- Star becomes larger, cooler, but <u>brighte</u>r!
- All the while, the core is continuing to shrink and is heating up

