Review Part 1 Stellar Evolution

1. What is the most important property that determines the evolution of a star?
2. What is the most significant force that determines the evolution of stars?
3. When do we say that a star is born?
4. Our Sun forms from the gravitational collapse of what\_\_\_\_\_\_?
5. When does a Protostar become a Main Sequence Star?
6. What type of telescope do astronomers use to view low energy Protostars?
7. A star enters the main sequence when \_\_\_\_\_\_\_\_ ?
8. What factor determines the lifetime of a star?
9. What makes a gas cloud contract to form stars?
10. What makes a star stop contracting?
11. In how many years will our Sun leave the main sequence?
12. What is hydrostatic equilibrium?
13. If a star is in hydrostatic equilibrium what is happening?
14. In which stage of a star's evolutionary cycle does it spend the most time?
15. What characteristic do all stars on the main sequence share?
16. What is the main source of energy for main sequence stars?
17. During a star's main sequence portion of its life it does not change size appreciably. What does that indicate?
18. When a star has stopped contracting and settled down, where is it in the H-R diagram?
19. What fuel do stars on the main sequence burn?
20. Why do elements fuse only in a star's core?
21. What makes a star shine?
22. What determines how rapidly a star burns up its fuel?
23. What determines how long a star stays on the main sequence?
24. After a star leaves the main sequence, what happens to the fusion process?
25. What characteristic most directly determines how much fuel a star has?