-	
/	red orange yellow white blue violet
	Notes: Life Cycle of our Sun(and other medium sized stars)
Ø	1. What process gives our Sun its energy? Nuclear Fusion
	2. What is the Sun's main fuel? Hydrogen
	3. What is produced inside the Sun when this fuel is fused together?  Helium
	4. What are the stages of our Sun's life (in order)?
Né	John Protostor, Main ence, Red Planetary white star Giant nebula, dwarf
	5. What is a "main sequence" star?  A star that is only fusing
	6. What color is our Sun, and what does that tell us about our Sun's temperature and mass?  Explain your reasoning.
	Color is white - Stemperature
Ĵ	Stars have
	7. Right now, our Sun is a main sequence star. What will happen to end this stage of our Sun's life?
	7. Right now, our Sun is a main sequence star. What will happen to end this stage of our Sun's life?
	It will run out of Hydrogen in its core.
	8. Draw cross-section diagrams of our Sun at
	the beginning and the end of main sequence stage of life. Label the materials in the Sun,
	Fusing Hydrogen Hydrogen
	Hydrogen
الملك	Horosen Corc
	Beginning 5BY from now

In its next stage of life, our Sun will become a red giant. In this stage, what w happen to Our Sun's size? Explain why. It will get bigger, Helina Pressofre Helium Willstart & fuse in the core, Shall Increased fision will 76 Hydrasen Fusian Create Stronger pressure that will cause expand 10. When our Sun becomes a red giant, what will happen to its surface temperature? Why? As the outer layers of the sun expand, their energy is spread out, resulting in cooler temperatures on the surface. Coming of When our Sun becomes a red giant why will it turn red? It turns from white to red because of the surface cools down. What will are the sources of the Sun's energy during the Red Giant stage? - Helium Fosion in the core - Hydrogen fusion in a shell around the core When the red giant stage of our Sun's life ends, what will happen to its size? Explain why. It will rapidly shrink. The sun William out of fusable Helium and hydrogen. Fusish will Stop. Without the hot gas pressure in the core, gravity will cause it to shrink.

14. As our Sun enters its final stage of life, what will happen to its color and temperature? Explain
why. Frankli Compress it causing
Gravity with compress in
Why. Bravity will compress it, causing the sun to heat up and turn whit
15. What is the source of the Sun's energy at this stage?
Compression (due to gravity)
· · · · · · · · · · · · · · · · · · ·
16. This final stage of life begins after the red giant stage, when the Sun will become a
Planetary nebula. This is basically a bunch of
This is basically a burion of
colorful gases surrounding a white
1
dwarf star.
be-6/own
17. The colorful gases will eventually away, and the Sun will then be just a
17. The colorful gases will eventually away, and the Sun will then be just a white dwarf.
white owar +
are
18. There  actually a few more stages in our Sun's life. Our Sun will eventually turn into a
red durit, then a brown dwarf, and finally a
black divar. This will happen because
It will slowly lose it's heat to
Space, eventually becoming
cold and dark.
// / / / // -
19. Our Sun is about 4.6 billion leas old, and it will turn into a red giant in about
5 billion years from today.