	FSS 1	00 (Stapleton) Name:
_		Life Cycle of our Sun(and other medium sized stars)
0	1.	What process gives our Sun its energy? Maclear Fusion
	2.	What is the Sun's main fuel? Hedrogen & D
	3.	What is produced inside the Sun when this fuel is fused together?
	4.	What are the stages of our Sun's life (in order)?
Vebr	by Pro	Hot center of nebula
	5.	What is a "main sequence" star?
	,	A star that is fusing hydrogen dwarf in its core (center) [our sun is one]
	6.	What color is our Sun, and what does that tell us about our Sun's temperature and mass?  Explain your reasoning.
		white - > temperature is medium
		Pressure is medium
		Mass is medium
	7.	Right now, our Sun is a main sequence star. What will happen to end this stage of our Sun's life?
		the core will run out of hydrogen to fuse. Fusion stops in the core. God
	8.	Draw a cross-section diagram of our Sun at the end of main sequence stage of life. Label the materials in the Sun, and explain why they are there.
<u> </u>	9.	In its next stage of life, our Sun will become a red giant. In this stage, what will happen to Our Sun's size? Explain why.
		Sun will expand, because the fusing hydrogen will move outward.

10.	When our Sun becomes a red giant, what will happen to its temperature? Why?
	closer to the sun's surface is less
	When any Sun becomes a red sign bule will it town as do
	It cools down. loss
12.	What will be the source of the Sun's energy during the Red Giant stage?
	Fusion of hydrogen in a "shell" outside the core
13.	
	Runs out of hydrogen that
	can be fused. All Lusion Stops.
14.	As our Sun enters its final stage of life, what will happen to its size? Explain why.
	It will shrink because it
	cools down when fision stops.
15.	As our Sun enters its final stage of life, what will happen to its color and temperature? Explain
	why. Heats back up because it
	compresses itself as it sariats.
	Heating turns it from red to white hotter
16.	What is the source of the Sun's energy at this stage?
	Compression
17.	There is actually one more stage in our Sun's life. Our Sun will eventually turn into a
2	coace will cool it down until
_	There is actually one more stage in our Sun's life. Our Sun will eventually turn into a lack dwarf. This is because  Space will cool it down until it has no energy and no light.
18	Our Sun is about 5 billion years old, and it will turn into a red giant in about
Ų	Shillion years from today.