

Physics 1311  
Spring 2020  
Homework/Study 6 (two-sided)

Chapter 9

1. What mode of heat transfer carries solar energy from the surface of the photosphere to here?
2. What part of the Sun emits X-rays?
3. In as few words as possible, what is the physical nature of sunspots?
4. How long is the solar magnetic cycle? (Check your book carefully) What does the magnetic field do halfway through the cycle?
5. Briefly describe the solar corona (location, temperature, etc).
6. What is the condition of hydrostatic equilibrium?
7. What produces the granulated appearance of the photosphere?
8. What percentage (mass) of the Sun's mass is NOT hydrogen or helium?
9. How many Earth masses are needed to equal the Sun's mass? (Look in the Appendix for Earth's mass, calculate and show the work.)

