

Physics 1311  
Spring 2020  
Homework/Study 11 (two-sided)

Chapter 15

1. What does Hubble's Tuning Fork diagram show and represent?
2. What are the three general types of galaxy?
3. Elliptical galaxies tend to be orange in color. What does that say about the type of stars in them?
4. Write the **definition** of a standard candle.
5. What is notable about a radio galaxy?
6. Two properties make type Ia supernovae good for finding the distance to galaxies. What are those properties?
7. What is the Distance Ladder made up of?
8. Write the formula for Hubble's Law. What does it tell us?

9. What does the Local Group contain?
  
10. The recession velocity of a galaxy is 118,000 km/s. Using Hubble's Law, calculate how far away it is. Show your calculation.
  
11. Briefly, what does a quasar look like? What makes them interesting?