

One full name _____

Date _____

Honors 160

Activity 19-1, The Milky Way Galaxy

There is a sketch of the Milky Way galaxy projected on the digital projector screen. Answer the following questions by writing one or more letters in the space provided.

1. Which letter is in a volume of the galaxy containing the oldest stars? _____
2. Which letter is in a volume of the galaxy containing the youngest stars? _____
3. Which letter points to stars with elliptical orbits about the galactic center? _____
4. Which letter is among stars with circular orbits about the galactic center? _____
5. Which letter points to an open cluster of stars? _____
6. Which letter points to a globular star cluster? _____
7. Which letter points to a stellar nursery? _____
8. Which letter is nearest to a supermassive black hole? _____
9. Which letter is in the volume of the galaxy containing the most visible mass? _____
10. Which letter is in the volume of the galaxy containing the most unseen mass? _____
11. Which letter is among stars with the greatest age? _____
12. Which letter is associated with the youngest stars? _____
13. Which letter is located in a spiral arm of the galaxy? _____

14. Sketch the HR diagram for stars indicated by F.

15. Sketch the HR diagram for indicated by H.

