# “Galaxies, Part 2: Crash Course Astronomy #39”

# <https://www.youtube.com/watch?v=I82ADyJC7wE>

# Name

1. We live in the Milky Way, a galaxy with large \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ arms.

2. At the time of its discovery, 3C273 was the most \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ object in the universe. Yet, it just appeared as a tiny dot in the sky. This galaxy was the first discovered \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

3. To create the amount of energy that was discovered to be coming out of active galaxies you need an object with A LOT of gravity: a \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

4. Not all big galaxies have black holes at their center. **TRUE FALSE**

5. Around a black hole, orbital speeds are near \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

6. The Milky Way has a supermassive black hole at its center. **TRUE FALSE**

7. The Milky Way is an active galaxy. **TRUE FALSE**

8. One way to “turn a black hole” on is via galactic \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

9. That (#8) could happen to us. **TRUE FALSE**

10. We know that Andromeda is on a collision course with us because its spectrum is \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

11. The black hole at the center of Andromeda is \_\_\_\_\_\_\_\_\_\_\_\_\_ times the mass of ours.

12. The cluster of galaxies around us is referred to as the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

13. Neighboring galactic clusters are called \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

14. The “Hubble Deep Field” looked at a section of sky about the size of a grain of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_. In every deep field image, Hubble found \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_. The conclusion is that the universe is filled with \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ of galaxies.

15. Our \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ about this amazing cosmos makes us significant.