

The Universe: Alien Galaxies

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OR in youtube search “History Channel Alien Galaxies Documentary 1080p”

1. How old is the universe? _____

2. What is a galaxy?

3. If the sun were the size of a _____, our galaxy would be the size of the United States.

4. Describe what the “white smudge” is and how it got its name

5. M104 is also called _____.

6. This galaxy has _____ times more mass than our sun.

7. Centaurus A sends out _____.

8. _____ is the nearest galaxy to Earth.

9. (True or False) Galaxies come in different shapes and sizes.

10. What do galactic nuclei produce?

11. The brightest quasar is _____ times brighter than our sun.

12. (True or False) a quasar can be brighter than a galaxy.

13. What happens when a smaller galaxy collides with a larger one?

14. What made all the things necessary to make an alien galaxy?

15. How long after the Big Bang did a galaxy occur?

16. How long does it take to make one orbit around our galaxy? _____

17. How do galaxies form density waves?

18. _____ is the same size as our Milky Way.

19. How did Andromeda form? _____

20. Andromeda has _____ nuclei.

21. Describe what will happen in a collision between Andromeda and the Milky Way?

22. Who was the fundamental scientist who laid out the basics of astronomy? _____

23. How many galaxies are nearby us? _____

24. What are the Magellenic clouds and how do they orbit the galaxy?

25. A super massive black hole is _____ the mass of our sun.

26. What are gamma ray bursts and how are they formed?

27. Less than _____ of _____ of our universe is observable matter. The other part is

_____.

28. What is dark matter?

29. What is GaleX?

30. What is adaptive optics?
