

Name _____ Date _____ Period _____

BEYOND THE BIG BANG VIDEO NOTES

“We are related to each other biologically, to the Earth chemically, and to the universe atomically.”

Watch and listen to the video. Answer the following questions.

1. How old is the universe?
2. What do they call the story of the universe?
3. What is the Big Bang about?
4. How are all the other galaxies moving in space?
5. Why is the term “Big Bang” a misnomer?
6. What **doesn't** the Big Bang theory explain?
7. What is the sun mostly made of?
8. When did the Solar System form?
9. How many galaxies make up the visible universe?
10. Do they consider the universe expanding?
11. How did primitive people explain nature?
12. What structures did primitive people build in order to connect with nature?
13. What was located at Gochik Germany?
14. What did primitive people use the nighttime sky for?
15. What is astrology?
16. What was the zodiac used for?
17. What was the early perception of earth in the universe?
18. What were the 2 types of stars the Greeks observed?

19. What was Aristotle's contribution to understanding the universe?
20. What was Claudius Ptolemy's contribution to understanding the universe?
21. Why did Astronomy not progress after the Greeks?
22. What is the Heliocentric universe?
23. What did Nicholas Copernicus contribute to understanding the universe?
24. What was Johannes Kepler's contribution to understanding the universe?
25. What was Galileo's contribution to understanding the universe?
26. What tool (instrument) was used to change Astronomy?
27. What observations did Galileo make with this tool (instrument)?
28. Why did Galileo get in trouble with the church and what happened to him?
29. What was Isaac Newton's contribution to understanding the universe?

30. What was Albert Einstein's contribution to understanding the universe?

31. What was Einstein's specialty?

32. How did Einstein envision gravity?

33. How was Einstein's vision of gravity proved?

34. What was Father George LeMatre's contribution to understanding the universe?

35. What was Edwin Hubble's contribution to understanding the universe?

36. What was Fred Hoyle's competing theory for the creation of the universe?

37. What is nucleosynthesis?

38. What are the 2 elements that make up the majority of the universe?

39. What was George Gamov's contribution to understanding the universe?

40. Who came up with the nickname “Big Bang”?

41. What was the “smoking gun” that Penzias and Wilson discovered?

42. Why was the temperature uniform in space?

43. What was Guth’s contribution to understanding the universe?

44. What did the WMAP satellite discover?

45. What is the newest theory for the destruction of the universe?