

Video Quiz

The Universe – Beyond the Big Bang

Name: _____

Period: _____ Date: _____

Answer each of the following questions as you watch the video. Explain each answer thoroughly and use specific examples from the video in your answers!!!

For thousands of years we have been gathering knowledge about our universe, theories have been born, improved, disproved, and reborn. Science is constantly learning new things and with our improved knowledge, we can learn more about the ultimate question. Where do we come from? Why are we here? And where are we headed...?

1) Why is the name “Big Bang” a misnomer (inappropriate name)? Explain your answer.

2) What is the “Big Bang Theory”? Explain your answer.

Astronomy is an evolving science. We begin with the first concepts made had about our universe and have then built on this idea over the centuries as new evidence has answered questions and posed new ones.

3) Why did early man build structures such as Stonehenge? Explain your answer.

4) How did early astrologers use the stars? Explain your answer.

5) Describe Aristotle’s Model. Sketch a diagram and explain.

6) Describe Ptolemy’s Model. Sketch a diagram and explain.

7) What is an epicycle? Sketch a diagram and explain.

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- 8) What is “heliocentrism”?
- 9) How did Copernicus change the Ptolemaic Model?
- 10) How did Kepler improve upon the Copernican Model?
- 11) What did Kepler discover about the speed of the planets?
- 12) Name 3 things Galileo saw by looking through a telescope
 - a.
 - b.
 - c.
- 13) What did these observations prove?
- 14) What contributions did Isaac Newton make to science and the knowledge of our universe?
- 15) What is gravity?
- 16) What is a “thought experiment”?
- 17) What contributions did Einstein make to science?
- 18) How does gravity work? Be specific... it is not the one we learned in class!

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- 19) In 1919, how was Einstein's Theory of General Relativity proved correct?

- 20) Describe Father John Lumetra's theory about how the universe began.

- 21) How did Edwin Hubble's discovery change the view of the universe?

- 22) How old did Edwin Hubble predict the universe to be?

- 23) What was the problem with his number?

- 24) What is "Steady-State Theory"?

- 25) What is the 'smoking gun' that scientists found?

- 26) What problems have arisen with the Big Bang Theory?