

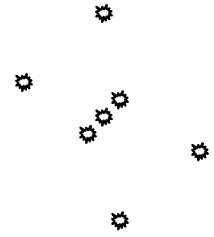
**“Understanding the Universe”
TLC Video Worksheet**

Name _____
Date _____ Period _____

1. According to the video, what is one thing that is seriously wrong with the Universe?

2. How far is the sun away from the earth? _____

3. What is the name of this constellation? _____



4. As late as the 16th century most astronomers believed that the earth was: _____.

5. What is the name of the galaxy that we're located in? _____

6. When a star is moving towards us it's in _____ shift.

7. When a star is moving away from us it's in _____ shift.

8. All matter was once located where, according to the Big Bang Theory? _____

9. How long ago did the Big Bang occur? _____

“Too Many Candles on the Cake?”

10. Why do astronomers go to remote locations high on mountaintops to observe the universe?

11. What star, or star stage, is currently the accepted “distance marker” used by astronomers?

12. Are supernovas common in our universe? _____

13. What is the ancient enemy that astronomers still battle? _____

14. What was the “new age” that the NASA astronomer Wendy Friedman determined as the age of our universe?

15. What is the inaccuracy of Ms. Friedman's age of the universe?

“The Dark Side of the Universe”

16. What electromagnetic waves are used on the sun to show its violent activity? _____

17. What electromagnetic waves allowed us to see through dust clouds and observe stars forming for the very first time?
18. What makes the static noises that astronomers hear when they use a radio telescope to observe the universe?
19. How much of the universe have we actually been studying? _____
20. What have astronomers theorized the other mass amount of unexplored space to be?
21. What is the mineral mica used to detect? _____ (abbreviations are okay)
22. What are the tiny, dense stars called that possibly explain the dark matter? _____
23. Why do we want to know about dark matter?
24. What helps to create a star, but is also responsible for killing it? _____
25. What is the VLA? _____
26. What do astronomers now believe a black hole is created from? _____

"Infinity and Beyond"

27. What is a worm hole?
28. How are people/humans related to stars and supernovas?

