

The Universe. Constellations

1. Before high tech navigation, how did people navigate/
2. Position on Earth is measured in _____ and _____.
3. What system is used to position in the sky?
4. What is declination and right ascension?
5. What is a sextant?
6. What is a man made star and what is it used for?
7. What is one problem with the celestial coordinate system?
8. Can you tell the distance to a star by looking through a telescope?
9. Looking at celestial coordinates, can you tell the distance between stars?
10. What is parallax?
11. How is parallax done to get the distance to a star?
12. The closer the star, the _____ the parallax.
13. What is a cosmic lighthouse?
14. The luminosity of a star is?
15. The apparent magnitude or luminosity of a star depends on what?
16. If a Cepheid Variable does not appear bright, it must be _____.
17. Astronomers determine the distance to variables by calculating _____.
18. For greater distances, astronomers use _____.
19. What are two stars in the constellation of Orion?
20. Betelgeuse is what type of star?
21. Betelgeuse's next stage will be what?
22. Betelgeuse may have already exploded and we do not know it yet. Why?
23. What is the name of our northern star now?
24. Earth's wobble on its axis is called _____.
25. As the axis wobbles it is doing what in the sky?
26. It takes how long for one complete circle?
27. 14,000 years from now, what star will be the new northern star?
28. What is unique to circumpolar stars?
29. Why do variable stars pulsate?
30. What is the ecliptic?
31. In order for an eclipse to occur, the moon must do what?
32. Why isn't there an eclipse every month?
33. How many Zodiac signs are there actually?
34. What happened to one of them?
35. What is the most prominent feature in the southern hemisphere?
36. What are the dark areas seen in the Milky Way?
37. In 1922 the International Astronomical Union did what?
38. What is an asterism?
39. The night sky was used as a calendar. Explain how?
40. How are the constellations useful for navigating the sky?
41. If you lived on a planet 25 LY away from Earth, would you see the same constellations?
42. In 500,000 years, the stars of the constellations will be _____.