

400 Years of the Telescope Video Questions

(this video is available through Netflix streaming)

Answer the following questions on a separate sheet of paper. You do not need to answer them in complete sentences. Questions are spaced out with enough time for you to answer each (1-3 minutes apart).

1. Where is the Hooker Telescope located?
2. What did Edwin Hubble discover about the universe?
3. Who invented the telescope?
4. In 1609, Galileo observed what about the moon's surface?
5. What did the Greeks believe about celestial objects?
6. What did Copernicus suggest about our solar system?
7. What did Galileo observe about Jupiter, Venus, and the Sun?
8. Why was this a threat to the Catholic Church?
9. Why are refracting telescopes limited in how large they can be?
10. Newton in 1668, was the first to create a _____ telescope.
11. What invention made in 1839 allowed astronomers to be able to take photos with longer exposures?
12. What can star spectra tell about a star?
13. What is red shift tell us about galaxies in space?
14. What was the world's largest telescope?
15. Mauna Kea has how many telescopes?
16. Separate telescopes help to see more detail and can see which band in the spectrum?
17. New telescopes, like Pan-STARR, will have _____ billion megapixel digital cameras.
18. How far into the future can the Pan-STARR telescopes detect killer asteroid collisions with Earth?
19. Why are space based telescopes are better than Earth based telescopes?
20. What is the first space based telescope and why did it sit in storage for a decade before it was launched?
21. Why did we keep sending missions to service Hubble?
22. What is the Hubble Deep Field?
23. What is happening to the speed that the Universe is expanding?
24. What is dark energy?
25. There are three future telescopes being built. How large will they be?
26. How do we detect stars that orbit other suns?