

Name: _____
Mr. Willis
Conceptual Physics: _____
Date: _____

Unit XII
The Universe
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XII

Video: Astronomy Discoveries

1. The earliest records that we have of a planet moving were made by Babylonians who wrote about the planet _____.
2. The Greeks first thought that the planets move around _____.
3. Copernicus said that the earth was just another planet that moved around the _____.
4. In 1571 Johannes Kepler changed the idea that the planets moved in _____ to the understanding that the planets actually moved in elliptical orbits.
5. Galileo used a toy to create the _____ in order to better see the objects in space.
6. Galileo's new invention allowed him to see Jupiter's four _____.
7. This discovery emphasized the need for _____ in order to advance our understanding of science.
8. Haley predicted that _____ actually were orbiting just like the rest of the objects in space.
9. William Herschel changed from the study of music to building _____ telescopes.
10. Herschel used his telescopes to discover a new planet which was later named _____.
11. By counting the stars in the Milky Way Galaxy, Herschel discovered that the galaxy was a large _____ of stars.
12. This discovery placed our solar system as an _____ in an enormous universe.
13. Albert Einstein used calculations about the orbit of Mercury to refine Newton's _____ of Motion.
14. The Theory of General Relativity says that space has _____.
15. Photographs following the eclipse showed that the stars shifted _____.
16. White nebulae were fuzzy objects in the heavens that were later discovered to actually be _____.
17. A shift of color indicates that stars are moving in relation to Earth. The shift of the color _____ means that the stars are moving away from the Earth.

18. Carl Jansky was studying the kind of interference occurring at the 15 meter wavelength. This lead to the discovery of unknown objects later called _____ holes.
19. Radio astronomy was used to measure radiation from the Milky Way. The excess heat that was discovered by the radio telescope proved the _____ Theory.
20. The United States developed a satellite system to detect _____ bursts produced by nuclear explosions.
21. The discovery of Gamma Ray bursts proves the existence of events in the universe that have caused past _____ events on Earth.
22. Scientists discover the presence of new planets by noticing if the star _____ as the planet pulls on it while the planet orbits the star.
23. More than _____ extra-solar planets have been discovered orbiting other stars.
24. _____ is important for an earth-like-planet to become habitable.
25. By studying Type 1A Super Novas we have been able to discover how the expansion of the universe is actually _____.
26. This acceleration is caused by _____ energy.
27. _____ has become less important as this dark energy has become more important.