Astronomy (Unit II): Review Sheet

Rot 1. 2. 3. 4. 5. 6. 7.	Earth spins Earth spins on a tilted axis of North Pole is always pointed toward Earth rotates in hrs min sec Rate of Rotation = degrees per The four pieces evidence for rotation include: What direction do the prevailing winds and ocean currents move in the northern and southern hemispheres?	
8. 9. 10. 11. 12.	Earth orbits As Earth orbits the Sun, what happens to the tilt of the Earth from position to position? Earth revolves in days Rate of Revolution = degrees per The three pieces evidence for rotation include: Aphelion falls on, Perihelion falls on	
14. 15. 16. 17. 18. 19. 20. 21. 22. 23.	Kepler has laws of planetary motion. Eccentricity = All planets travel in orbits with the at one point. As the distance between the foci decreases, eccentricity As the distance between the foci increases, eccentricity A planet travels faster when it is (closer -or- farther) from the Sun. A planet travels slower when it is (closer -or- farther) from the Sun. As distance increases from the Sun, the period of revolution Gravity (increases -or- decreases) when two celestial objects have more mass. Gravity (increases -or- decreases) when two celestial objects are close to each other. How do the planets travel in stable orbits?	
26. 27. 28.	This process combines lighter elements into heavier elements =	
31. 32. 33. 34.	Why do we observe the same side of the moon? Which phases are waxing? Which phases are waning? Know how to determine a particular moon phase based on an orbital diagram. Know which moon phase and location in its orbit for solar and lunar eclipses. There are hours between a high and low tide. There are hours between successive high or low tides. Know which moon phase and location in its orbit for spring and neap tides.	
36. 37. 38. 39. 40.	Know how to utilize pg. 15 of the ESRT, "Solar System Data" These planets are known as the terrestrial planets? These planets are known as the jovian planets? These celestial objects orbit the Sun between Mars and Jupiter? These celestial objects could make it through an atmosphere and create an impact crater? These celestial objects have a highly eccentric orbit as they orbit the Sun? Sun-Centered Model =	
	The orbits the Sun. The is located on one of the spiral arms of the The is one of 180 billion in the	
44. 45.	When did the Big Bang happen? When did the formation of Earth and the Solar System happen? The Universe is currently (contracting -or- expanding) since the Big Bang. Evidence comes from the (blue -or- red) shifts.	
<u>Sun</u> 47.	's Path N.H. Summer begins on, N.H. Winter begins on, N.H. Fall begins on, and N.	Н.
49. 50. 51. 52. 53. 54. 55.	Spring begins on	
58.	At the N.P. on 6/21, it has hours of daylight. On 12/21, it has hours of daylight. On 3/21, 9/21 or 9/23, it has hours of daylight. At the S.P. on 6/21, it has hours of daylight. On 12/21, it has hours of daylight. On 3/21, 9/21 or 9/23, it has hours of daylight. On 3/21, 9/21 or 9/23, it has	
	hours of daylight.	

Answers:

1. counterclockwise; 2. 23.5°; 3. Polaris; 4. 23, 56, 4; 5. 15°, hour; 6. Day and Night, Foucault Pendulum, Coriolis Effect, and Star Trails; 7. Right-N.H. and left – S.H.; 8. counterclockwise; 9. The tilt remains parallel; 10. 365.26; 11. 1°, day; 12. Seasons, Constellations, Apparent Diameter of the Sun; 13. 7/3-7/4, 1/3-1/4; 14. 3; 15. distance between foic/length of major axis; 16. elliptical, Sun, foi; 17. decreases; 18. increases; 19. closer; 20. farther; 21. increases; 22. increases; 23. increases; 24. Inertia (forward motion) and Gravity (inward, pulled motion); 25. Nuclear Fusion; 26. As temperature increases (right to left), the star increases in size and luminosity. Hottest Stars = Blue, Coldest Stars = Red; 27. The star is in the process of dying. 28. Massive Stars; 29. Less Massive; 30. The moon makes one complete rotation at the same time it takes to complete one revolution around the Earth (both periods are 27.3 days); 31. Waxing = New to Full Moon phases Waning = Full to New Moon phases; 32 Look over the diagram we used in class; 33. Solar Eclipse = New Moon Phase, Lunar Eclipse = Full Moon phases; 34. 6 (slightly more); 35. Spring Tides = New and Full Moon phases, Neap = First and Third/Last Quarter Moon phases; 36. There are many important columns that are connected to the terrestrial and jovian planets; 37. Terrestrial Planets = Mercury, Venus, Earth, and Mars, Jovian Planets = Jupiter, Saturn, Uranus, and Neptune; 38. Asteroids; 39. Meteorites; 40. Comets; 41. Heliocentric, 42. Earth, Sun, Milky Way, galaxies, Universe; 43. 10-17 b.y.a.; 44. 4.6 b.y.a.; 45. expanding 46. red (& cosmic background radiation); 47. 6/21, 12/21, 9/21 & 9/23, 3/21; 48. 23.5°N; 49. 23.5°N; 49. 23.5°S; 50. 0°; 51. east, west; 52. north of due west; 53. south of due east, south of due west; 54. due east, due west; 55. hours; 56. direct; 57. zenith; 58. 24, 0, 12; 59. 0, 24, 12.