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Planets and History of Astronomy

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| **Across**  **2.** A region of the solar system that is just beyond the orbit of Neptune and that contains small bodies made mostly of ice.  **3.** Hottest planet in our solar system and rotates backwards.  **4.** An Earth centered universe is called?  **5.** A meteoroid that passes through the atmosphere and hits the Earth’s surface.  **6.** What planet has the largest tilt?  **7.** The distance from the Earth to the Sun of 152 million km  **9.** A rocky metallic objects that orbit the sun but are too small to be considered planets and are leftovers from the formation of the solar system.  **11.** Shooting stars really aren’t stars; they are leftover parts of a \_\_\_\_\_ that the Earth passes through.  **12.** Which planet, currently, is the only one to have liquid water on the surface?  **13.** The 'Big Bang' is considered to be what?  **17.** There are 24 standard \_\_\_\_ \_\_\_\_ around the globe.  **18.** This ancient culture is credited with making detailed observation of comets and supernova in 1054 BC  **19.** This astronomer was Brahe assistant? (Full Name)  **21.** What does AU stand for? (Two words)  **35.** What explains why distance to the Sun isn't what makes it winter or summer?  **37.** Eratosthenes used a stick, a well, and an assistant to calculate the circumference of this?  **39.** The Outer Planets are called what?  **43.** This defines a \_\_\_\_\_\_\_\_\_ 1) is in orbit around the Sun, 2) has sufficient mass so that it assumes a hydrostatic equilibrium (nearly round) shape, and 3) has cleared the neighborhood around it's orbit.  **44.** By using a small telescope, we see this planet has rings  **47.** One unique feature of Jupiter is the?  **50.** Kepler came up with how many laws of planetary motion?  **52.** Name the location, when a satellite is traveling the slowest and is farthest from Earth?  **53.** This device can be used to separate white light into its colors?  **54.** The apparent backward motion of a planet is called?  **56.** A Sun centered Universe is called?  **57.** This astronomer used this new invention, the telescope, to help prove the correct model of the solar system? (Full Name)  **59.** When a star was moving towards us, the light is considered to be?  **60.** All Jovian planets have this in common?  **61.** This astronomer proposes the Earth was at the center and other planets had epicycles. (Full Name)  **62.** Which astronomer challenged the idea of a geocentric solar system? (Full Name)  **63.** The spinning motion of a planet about its own axis  **64.** The 'Great Dark Spot' is on which planet?  **65.** Term that describes equal amounts of day/night  **66.** The illuminated portion of the Moon is increasing. The right side is lit.  **67.** Which astronomer died from a bladder infection? (Full Name)  **68.** This is the smallest planet in our solar system and it has no moon or no atmosphere.  **69.** Earth is not a perfectly round sphere, it is more like a squished basketball, also know as  **70.** In what season does aphelion occur?  **71.** This happen with both light and sound, apparent shift in wavelength emitted by source either moving towards or away from an observer? | **Down**  **1.** When you look at the stars, you are actually looking into the?  **8.** A chunk of rock or dust in space  **10.** Proposed the Earth rotates on its axis and revolves around the Sun in 260 BC  **14.** What is the closest star to the Earth? (Scientific Name)  **15.** Aristotle, a Greek astronomer, proposed what model of the Solar System in 340 BC?  **16.** All Terrestrial planets have this in common?  **20.** 23.5 degrees S latitude, shortest day of the year  **22.** 23.5 degrees N latitude, longest day of the year  **23.** The following was considered correct for the order the solar system: Earth-Moon-Venus-Mercury-Sun-Mars-Jupiter-Saturn-Stars  **24.** A dwarf planet in our solar system that has four moons?  **25.** What celestial object has been visited by human? (Scientific Name)  **26.** A streak of light in the sky produced by the burning of a meteoroid in Earth’s atmosphere.  **27.** What separates the Inner Planets from the Outer Planets (Two Words)  **28.** Which civilization recorded the first eclipse, in 2136 BC?  **29.** The movement of an object around another object  **30.** Most comets come from this location, past Pluto (Two words)?  **31.** The illuminated portion of the Moon is decreasing. The left side is lit.  **32.** Most famous comet is - that comes around every 76 years (Two words)?  **33.** The Inner Planets are considered what?  **34.** What location do objects orbits the Sun the fastest?  **36.** In what season does the perihelion occur?  **38.** Formation of theories about the origin and change overtime of the entire universe  **40.** Covered in iron oxide (rust), this planet appears reddish in color  **41.** The Earth block the light from the Sun reaching the Moon (order S.E.M.)  **42.** Newton came up with how many laws of motion?  **45.** This Dutch eyeglass maker, Johannes Lippershey, is created in make this new tool to study the heavens.  **46.** First person to walk on the Moon  **48.** The Moon block the light from the Sun reaching the Earth (order S.M.E.)  **49.** The distance from the Earth to the Sun of 147 million km  **51.** How much of the moon is always lit, whether we see it or not?  **55.** A mixture of all color of light  **58.** The point in the orbit of a satellite or moon at which it comes nearest to the object it is orbiting |