

UCM & Gravity Crossword Clues

ACROSS

- 1 Untested theory
- 5 If the orbital radius is not constant, the body is not in $_?_$ motion
- 10 Toy musical instrument
- 12 Quantity measured in square meters
- 13 Crazy en Español
- 15 Measured in newtons
- 18 Greco-Egyptian astronomer, author of *The Almagest*, who devised a system of epicycles and eccentrics in support of the geocentric model of the universe
- 19 Gravitational force
- 20 The direction in which a body in UCM accelerates
- 23 Antonym of "off"
- 26 Animal doctor; former combatant
- 27 Many people are so "technology challenged," they can't get their $_?_$ to stop blinking "12:00"
- 28 Sacramento radio stations KXPR and KXJZ are affiliates of $_?_$
- 29 Ancient Greek mathematician who proposed a heliocentric model of the universe
- 32 Acceleration occurs when a non-zero $_?_$ force acts on the body
- 33
- 34 Fruit-eating tropical bird, Froot Loops® spokes-cartoon $_?_$ Sam
- 35 Short for Dorothy
- 36 Sand hill
- 37 Cartoon beagle
- 38 Quantity of inertia
- 39 *The Brady* $_?_$
- 40 Opposite of happy
- 42 Printing liquid
- 43 Colored wax pencil
- 46 Perpendicular to the tangential direction
- 48 $_?_$ Leno
- 49 Sound Navigation And Ranging
- 54 "My mistress' eyes are nothing like the $_?_$ "
- 56 Rio rooters, the River $_?_$ s
- 59 Fictitious force that pushes bodies in circular motion *outward* from the center of the circle
- 62 Livin' $_?_$ (slang for doing well)
- 63 Short for "influenza"
- 65 The characteristic of matter that makes bodies resist acceleration
- 66 Magician Penn's partner

- 67 SI unit of radius
- 68 $2R/T$ is tangential $_?_$
- 69 Crystalline water
- 72 Devised the modern concept of inertia in support of the heliocentric model of the solar system
- 75 Plato's teacher
- 77 Mass is sometimes referred to as quantity of $_?_$
- 79 The Earth exerts a gravitational force of 9.8N on each $_?_$ of mass on its surface
- 83 News agency; competitor to the Associated Press
- 84 Preferred writing utensil in physics
- 85 Atoms with filled valence shells comprise the family of elements known as the $_?_$ gases
- 86 The distance from the Sun to the Earth is one $_?_$ unit
- 89 In our democratic republic, we $_?_$ our legislative representatives
- 90 Elemental constituent of quarters and dimes before 1965

DOWN

- 1 The $_?_$ 9000 was the computer that played a major role in *2001: A Space Odyssey*
- 2 *Deep Space Nine's* changeling
- 3 The $_?_$ at a point on the position versus clock reading graph is the value of the velocity
- 4 Hawkeye State
- 5 Renaissance-era monk who reintroduced the heliocentric model of the solar system
- 6 Red gemstone
- 7 Home of the Great Salt Lake
- 8 Home, home on the $_?_$
- 9 Not a scalar
- 10 German mathematician employed by Tycho Brahe
- 11 Animal park
- 14 $6.67E-11N \cdot m^2/kg^2$ is the universal gravitation $_?_$
- 16 $_?_$ changes while speed is constant when a body is in UCM
- 17 $F = GMm/R^2$ is the Law of Universal $_?_$
- 20 Reclusive British scientist who determined the universal gravitational constant
- 21 The time required to complete one cycle or orbit
- 22 Perpendicular to the radial direction

- 24 $1/2$ of the circumference
- 25 The relationship between orbital period and orbital radius was Kepler's Law of $_?_$
- 30 SI unit of period
- 31 Roman temple
- 38 Magnetic resonance imaging
- 41 The space between two positions or locations
- 44 One of the goals of Alchemists was to turn Pb into $_?_$
- 45 The Garden State
- 47 The rate at which a body changes its velocity
- 50 Six-month day is followed by six-month night above the $_?_$ Circle
- 51 2.54cm
- 52 Danish prince who built the premier observatory of the late 16th century
- 53 Letter used to denote "micro"
- 55 <http://www.jps.net/dbaird/phys/index.html>, for example
- 57 Greek philosopher who deemed the circle to be the most perfect shape in the universe
- 58 1970's plastic figurines with wild colored hair
- 60 The F in KFC
- 61 Recognized as the first scientist of Western civilization
- 63 Measured in Hz
- 64 The part of the cow where milk is taken
- 69 A point in time
- 70 The slope at a given point on a velocity versus clock reading plot gives the $_?_$ of acceleration
- 71 Middlemost value in a group of numbers
- 73 Means by which a company offers to sell its stock for the first time
- 74 "Friends, Romans, Countrymen, lend me your $_?_$ s"
- 76 Small jazz group; fast-food meal deal
- 78 Oz dog; 1980's pop band
- 80 $_?_$ and bear it
- 81 $6.02E+23$
- 82 "British" (American) unit of mass
- 84 Edgar Allen $_?_$
- 87 Densest element
- 88 Home of the Sooners