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If a gravitational force acts on the cannonball, it will follow a different path depending on its initial velocity. If the speed was the orbital speed at that altitude, it would go on circling around the Earth along a fixed circular orbit, just like the Moon. This visualisation is key for understanding orbital mechanics. Figure 1.

~~Everything you need to know about orbital mechanics~~

4 2. This problem can also be solved using Kepler's third law of planetary motion: the square of the period of a satellite in a circular orbit is proportional to the cube of its radius. That solution is presented in an earlier section of this book. Now substitute in the appropriate values.

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Chapters 5 through 8 carry on with the subject of orbital mechanics. Chapter 6 on orbital maneuvers should be included in any case. Coverage of Chapters 5, 7 and 8 is optional. However, if all of Chapter 8 on interplanetary missions is to form a part of the course, then the solution of Lambert ' s problem (Section 5.3) must be studied beforehand.

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Newton had to invent calculus so he could solve orbital mechanics problems in more than just a heuristic way. Newton (1642 – 1727) was an English physicist and mathematician whose 1687 publication Mathematical Principles of Natural Philosophy (the Principia) is one of the most influential scientific works of all times.

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Orbits are conic sections, so the formula for the distance of a body for a given angle corresponds to the formula for that curve in polar coordinates, which is: $r = \frac{p}{1 + e \cos \theta}$. $\mu = G(m_1 + m_2)$, $p = \frac{h^2}{\mu}$.

~~Orbital mechanics - Wikipedia~~

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$F_g = Gm_1 m_2 / r^2$. $F_c = m_2 v^2 / r$. $v/r = 2\pi/T$ And now for the only new thing here: For the orbital condition to be satisfied, $F_g = F_c$ Simple substitution then gets us to the most common variant, $Gm_1 m_2 / r^2 = m_2 w^2 r$. This simplifies to $v^2 r = Gm_1$ Note that the satellite's mass drops out

here.

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~~Atomic orbital – Wikipedia~~

TWO-BODY ORBITAL MECHANICS Similarly, apply the Second Law to the freight car to get its equation of motion, $F_{fc} - F_{cfc} = m_{fc}a_{fc}$, (1.5) where F_{fc} is the force of the engine on the freight car, F_{cfc} is the force of the caboose on the freight car, m_{fc} is the mass of the freight car, and a_{fc} is its acceleration.

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