

Circular Motion and Gravitation

Section Study Guide**Teacher Notes and Answers****CIRCULAR MOTION**

- yes
 - The car has a non-zero acceleration because the direction of motion is changing.
 - The direction of centripetal acceleration is toward the center of the circle. In this case, the direction is toward the center of the Ferris wheel.
 - $4.8 \times 10^{-2} \text{ m/s}^2$
- the wire
 - centripetal force
 - The centripetal force acts toward the center of the circular motion.
 - inertia
 - 32.0 m/s

NEWTON'S LAW OF UNIVERSAL GRAVITATION

- 2
 - 4
 - $\frac{1}{4}$
 - 1
- double one mass, double the force
 - double both masses, quadruple the force
 - double the radius, decrease the force to $\frac{1}{4}$
 - If measured in the opposite direction, the force will be in the opposite direction.
- Because of inertia, objects tend to go in a straight line. A force is needed to change the direction of travel.

MOTION IN SPACE

- According to Copernicus, Earth and the other planets each move in a perfect circle around the sun.
 - According to Kepler's First Law, Earth and the other planets each move in an elliptical orbit with the sun at one focus.
- $\Delta r_1 = \Delta r_2$
- $T^2 \propto r^3$
- Newton derived Kepler's laws from the universal law of gravitation.
- $T = 3.17 \times 10^7 \text{ s}$; $v_1 = 2.98 \times 10^4 \text{ m/s}$

TORQUE AND SIMPLE MECHANICS

- F_A , F_C , F_B , F_D
 - F_A exerts the largest torque because it has the largest lever arm.
- $1.2 \times 10^4 \text{ J}$
 - 120 N
 - 110 m
 - greater
- 0.92
 - 0.90
 - 0.94

Circular Motion And Gravitation Study Guide

F Rizvi



Circular Motion And Gravitation Study Guide:

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