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## **Momentum And Its Conservation Answers**

9.1 Impulse and Momentum pages 229-235 page 235 6. Momentum Is the momentum of a car traveling south

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different from that of the same car when it travels north at the same speed? Draw the momentum vectors to support your answer. Yes, momentum is a vector quantity, and the momenta of the two cars are in opposite directions.  $7.8 \times 10^3$  N  $\times$  9.80 m ...

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The product of the average net force exerted on an object and the time interval over which the force acts. The product of mass and velocity of an object. The impulse given an object equals its change in momentum. Quantity of motion used with objects rotating about a fixed axis.

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You can see now that the ball's final momentum is the sum of the initial momentum and the impulse. If the tennis ball was at rest before it was hit, its final momentum is equal to the impulse,  $1.4 \text{ kg m/s}$ .  $p_2 = mv = 1.4 \text{ kg m/s}$  If the ball has a mass of  $0.060 \text{ kg}$ , then its

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velocity will be 23 m/s.  $v_p = \frac{m_2 v_2}{m_1 + m_2} = \frac{0.4 \text{ kg} \cdot 6 \text{ m/s}}{0.4 \text{ kg} + 0.6 \text{ kg}} = 2.4 \text{ m/s}$   
202 Momentum and Its Conservation

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your textbook, read about momentum in a closed, isolated system Write the term that correctly completes the statement Use each term once change external forces isolated system closed system interaction law of conservation of conditions ...

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forces momentum

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$$M = p/v = 152625/11.1 = 13,750\text{kg.}$$

Conservation of Momentum Problems (Collision Problems) 7. A 12,000kg. railroad car is traveling at 2m/s when it strikes another 10,000kg. railroad. car that is at...

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ANSWER KEY. MOMENTUM FORMULA & STUFF FROM THE PAST:  $p = m v$ ,  $TKE = \frac{1}{2}mv^2$ ,  $d = v t$ . 1. An ostrich with a mass of 146 kg is running to the right with a velocity of 17 m/s. a. Calculate the momentum (in kg m/s) of the ostrich. Ans.  $p = m v = 146 \text{ kg } 17 \text{ m/s} = 2482 \text{ kg m/s}$ . b. Calculate the kinetic energy (in J) of the ostrich.

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## **UNIT HOMEWORK MOMENTUM ANSWER KEY**

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velocity,  $v$ , is defined as the momentum of the object. Momentum is measured in

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kg·m/s. An object's momentum, also known as linear momentum, is represented by the following equation: Momentum  $p = mv$  • The momentum of an object is equal to the mass of the object times the object's velocity.

SECTION 9.1 Impulse and Momentum  
Impulse-Momentum Theorem

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momentum. impulse momentum theorem. conservation of momentum. change in momentum. The product of an object's mass and velocity. states that the impulse on an object equals the object's final... the momentum of a system is constant if there are no

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external.... impulse. change in momentum.

## **momentum chapter 9 its conservation Flashcards and Study**

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Lab 4.1 - Momentum and Energy -  
Energy and its Conservation Objective  
To find out about the different forms of

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energy and the principle of conservation of energy. Materials Computer. Phet Simulation More to read: Essay on Energy Utilization Introduction This lab introduces the concept of energy and the principle of the conservation of energy.

## **Momentum and Energy - Energy and**

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## **its Conservation**

To find this quantity, we use the conservation of angular momentum and note that the moments of inertia and initial angular velocity are given. To find the initial and final kinetic energies, we use the definition of rotational kinetic energy given by  $KE_{rot} = KE_{rot} = \frac{1}{2} I \omega^2$ .

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## **10.5 Angular Momentum and Its Conservation - College Physics**

Angular momentum, like energy and linear momentum, is conserved. This universally applicable law is another sign of underlying unity in physical laws.

Angular momentum is conserved when net external torque is zero, just as linear

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momentum is conserved when the net external force is zero.

## **Angular Momentum and Its Conservation | Physics**

The Physics Classroom: Momentum (use for #6) Hyper Physics: Momentum; CK-12: Momentum; When you have completed sections A and B, take your

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answers to #1-11 to your instructor. One of the questions will be selected and you will be asked to clearly explain your answer.

## **Task #1: Momentum - Momentum and Impulse WebQuest**

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Angular momentum, like energy and linear momentum, is conserved. This universally applicable law is another sign of underlying unity in physical laws.

Angular momentum is conserved when net external torque is zero, just as linear momentum is conserved when the net external force is zero.

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## **10.5: Angular Momentum and Its Conservation - Physics ...**

- Momentum is a vector. It has the same direction as corresponding velocity.
- General expression for the momentum conservation: the total momentum before the collision is equal to the total momentum after the collision

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## **Chapter 9. Impulse and Momentum - Physics & Astronomy** Fremont Public Schools

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