

Free pdf Chapter 6 momentum and collisions test Copy

momentum can explain or predict what happens when objects with different masses and velocities collide with one another let's bump our way into this important and relevant concept introduction to linear momentum and impulse introduction to momentum force vs time graphs linear momentum review impulse review 9 2 linear momentum momentum is a concept that describes how the motion of an object depends not only on its mass but also its velocity momentum is a vector quantity that depends equally on an object's mass and velocity the si unit for momentum is kg m s^{-1} in most collisions between two objects one object slows down and loses momentum while the other object speeds up and gains momentum if object 1 loses 75 units of momentum then object 2 gains 75 units of momentum yet the total momentum of the two objects object 1 plus object 2 is the same before the collision as it is after the collision about transcript momentum p is equal to mass m times velocity v but there are other ways to think about momentum force f is equal to the change in momentum Δp over the change in time Δt and the change in momentum Δp is also equal to the impulse j impulse has the same units as momentum kg m s^{-1} or N s created by sal khan an elastic collision is a collision in which there is no net loss in kinetic energy in the system as a result of the collision both momentum and kinetic energy are conserved quantities in elastic collisions suppose two similar trolleys are traveling toward each other with equal speed in an elastic collision an object with momentum 25 kg m s^{-1} collides with another object moving to the right that has a momentum 35 kg m s^{-1} after the collision both objects are still moving to the right but the first object's momentum changes to 10 kg m s^{-1} linear momentum is defined as the product of a system's mass multiplied by its velocity momentum is directly proportional to the object's mass and also its velocity thus the greater an object's mass or the greater its velocity the greater its momentum solution to example 1 let p_1 be the momentum of the two balls before collision momentum of ball a p_a mass velocity 0.1 kg m s^{-1} momentum of ball b p_b mass velocity 0.7 kg m s^{-1} $p_1 = p_a + p_b = 1 \text{ kg m s}^{-1}$ after collision the two balls make one ball of mass $0.1 \text{ kg} + 0.7 \text{ kg} = 0.8 \text{ kg}$ momentum and collisions module this momentum and collisions module consists of 10 missions assignments that address such topics as momentum impulse impulse momentum change theorem action reaction forces in a collision momentum transfer in a collision and momentum conservation in a collision mechanics momentum and collisions problem sets overview of physics legacy problem set we have 15 ready to use problem sets on the topic of momentum and collisions these problem sets focus on the use of momentum principles to mathematically analyze

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that is in motion has momentum which is defined by the equation
momentum mass velocity $p = mv$ where p momentum in kilogram metre per
second kg m s^{-1} m mass in kilograms kg v velocity in metres per second m s^{-1}

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moving object will have momentum momentum mass \times velocity $p = mv$ the
letter p represents momentum ρ represents density meanwhile an
object's change in momentum is its impulse impulse change in momentum
 $\Delta p = \Delta(mv)$ conservation of momentum

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well as its velocity momentum is a concept that describes this it is a
useful and powerful concept both computationally and theoretically

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