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know how to solve problems using the law of conservation of momentum what is the difference between an elastic collision recoil and an inelastic collision know how to solve problems involving both elastic and inelastic collisions and recoil momentum is a fundamental concept in physics that describes the amount of motion an object has it is often used in the context of collisions and is a useful tool for analyzing the behavior of moving objects this guide will cover the basic concepts and equations related to momentum definition of momentum study with quizlet and memorize flashcards containing terms like momentum $p = mv$ kg m s and more momentum is a measure of an object's motion it is the product of an object's mass and velocity momentum is a vector quantity meaning it has both magnitude and direction the momentum of an object can be calculated using the formula momentum = mass velocity this study guide reviews momentum law of conservation of momentum impulse and collisions perfectly elastic and perfectly inelastic momentum is a measure of an object's resistance to a change in motion it is a vector quantity meaning it has both magnitude size and direction the formula for momentum is $p = mv$ where p is momentum m is mass describe momentum what can change momentum impulse and the impulse momentum theorem describe newton's second law in terms of momentum solve problems using the impulse momentum theorem kenzievgreer top creator on quizlet study with quizlet and memorize flashcards containing terms like momentum impulse impulse momentum theorem and more cram for ap physics 1 momentum with fiveable study guides includes key concepts notes vocab and practice quizzes momentum and its conservation lesson 1 the impulse momentum change theorem momentum momentum change and impulse connection real world applications lesson 2 the law of momentum conservation the law of action reaction revisited momentum conservation principle isolated systems using equations as a recipe for algebraic problem solving 2022 dbi self study guides gr 12 physical sciences momentum and impulse this study guide is intended to serve as a resource for teachers and learners it provides notes examples problem solving exercises with solutions and examples of practical activities physics study guide this page may need to be reviewed for quality contents 1 momentum 1 1 linear momentum 1 2 angular momentum 1 3 force and linear momentum torque and angular momentum 1 4 conservation of momentum 1 5 variables 1 6 definition of terms 1 7 calculus based momentum momentum linear momentum key principles problem solving tips momentum multi dimensional momentum problems think components center of mass cm when calculating the cm the location of the origin is arbitrary always place it in a convenient place that simplifies the problem note that the center of mass is like a balance point study with quizlet and memorize flashcards containing terms like define momentum what is the equation and unit for momentum could a semi truck and a pencil have the same momentum and more fresh features from the 1 ai enhanced learning platform understand introduction to momentum google classroom microsoft teams a green station wagon and a red minivan are driving directly away from one another each moving at 70 m/s which two equations correctly model the momentum of the two car system choose 2 answers $p_{\text{net}} = m_{\text{green}} 70 \text{ m/s} + m_{\text{red}} 70 \text{ m/s}$ a as you work through the study guide you will see that it is divided according to the units listed in the table of contents when you open a unit it will have the following components assuming that there are no net external force acting on the system we can figure out the final speed of the two stuck carts using momentum conservation let us use a momentum chart to guide us through this problem the momentum chart can be filled out in the following order initial momentum is given p_i tot p_i a p_i b mv 0 unit 5 momentum we will also talk about momentum which can be said as how much motion an object has and is the product of mass and velocity we'll discuss how momentum can change due to an outside force and collisions 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 understanding interactions between force mass acceleration and momentum allows us to predict and how an object will move and comes in handy when we're designing things like airplanes or seismically reinforced buildings

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