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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

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5 1 momentum and impulse momentum is a measure of an object s resistance to a change in motion which is defined as the product of an object s mass and velocity in other words momentum is the amount of motion an object has it is a vector quantity meaning it has both magnitude size and direction

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definition of terms momentum p mass times velocity kg m s mass m a quantity that describes how much material exists or how the material responds in a gravitational field mass is a measure of inertia kg

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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 $p_{\text{net}} = m_{\text{green}} 70 \text{ m/s} + m_{\text{red}} 70 \text{ m/s}$

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we define the momentum of an object as the product of the mass of the object and its velocity $p = mv$ where m is the mass in kg and v is the velocity in m/s mass is a scalar quantity velocity is a vector quantity so momentum is also a vector quantity we always refer to the direction of the momentum

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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 $p_{\text{tot}} = p_{\text{a}} + p_{\text{b}} = mv_0$

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