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with examples and activities newton s laws of motion describe the connection between the forces that act upon an object and the manner in which the object moves an understanding of forces and their tendency to balance or not balance each other is crucial to understanding how the object will change or not change its state of motion newton s second law of motion the acceleration of a system is directly proportional to and in the same direction as the net external force acting on the system and inversely proportional to its mass in equation form newton s second law of motion is $F_{net} = ma$ this is often written in the more familiar form $F = ma$ explore the forces at work when pulling against a cart and pushing a refrigerator crate or person create an applied force and see how it makes objects move change friction and see how it affects the motion of objects learn about the basics of forces and motion with this interactive simulation from phet experiment with different types of forces friction and objects and see how they affect the movement and speed of the objects this simulation is suitable for students of all ages and can be used offline or online find lessons on forces and motion for all grades free interactive resources and activities for the classroom and home discover how force applied to an object causes motion changing the location of the object as it moves and learn about isaac newton and his laws of motion forceful forcing may the force be with you how do scientists define the term force and how do forces make things move learn how we can define and measure forces and motion to understand how things ranging from grains of sand to entire planets move

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define the si unit of force the newton describe force as a vector the study of motion is called kinematics but kinematics only describes the way objects move their velocity and their acceleration dynamics is the study of how forces affect the motion of objects and systems

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