

I'm not robot





When a single football is kicked, it accelerates due to the applied force. However, if a friend kicks the same football with an equal and opposite force at the same time, there's still a net force acting on the system. The combined forces of both kicks cancel each other out in terms of direction but still add up to create movement. When two identical air pucks are held together on an air table and released, they move apart due to the repelling magnetic force between them. If one puck has twice the mass of the other, it will have half the speed when released. Given that one puck moves away at 0.4 m/s, the double-mass puck's final speed is 0.2 m/s. Air pucks are ranked by the force needed to keep them moving from greatest to least based on their friction with ice and air. The heavier puck experiences more resistance but accelerates faster because of Newton's third law. For stopping, the order changes due to inertial forces; a heavier object requires greater force to stop within the same time frame. When astronauts in space are connected by a safety cord, both pull toward each other regardless of their direction since they're still experiencing an equal and opposite force. Multiple editions and variations of the textbook "Conceptual Physics" are listed, each with a specific ISBN number. These include physical copies, e-books, and access cards for online resources like MasteringPhysics and Pearson eText. Some listings also include additional materials such as practice books and laboratory manuals.

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