

## You Can't Push Without Being Pushed



**Purpose:** To show that you can't push on an object without the object exerting an equal but oppositely directed push on you.

**Location:** room 136, shelf M4

Roller Blades (men's size 9) – Have someone try pushing on the wall while wearing roller blades without making themselves go backwards.

Chairs with Wheels – 2 students in chairs can try to push each other without pushing themselves. This can also be done with 2 students with very different weight to demonstrate that the same force results in greater acceleration (and hence speed and distance) when applied to a smaller mass. (Classroom chairs work okay.)