


Do Now: Ballistic Pendulum


Website | <https://barisciencelab.tech/L4BallisticPendulum.html>

Q1. Mr. Bari drops two objects: a tennis ball (0.05 kilograms) and a dumbbell (5 kilograms) from 2 meters above the ground. Find the following listed in the table the instant before the object hits the ground:

	Tennis Ball	Dumbbell
Mass		
Time		
Velocity		
Momentum		

Q2. This time, there is a piece of glass on the ground. Say Mr. Bari drops the tennis ball and the dumbbell (both with the same masses from before) at a height of 2 meters. Now find the momentum of both objects before hitting the glass and compare it to their momentum before hitting the ground.

Find momentum of the tennis ball right before hitting the glass	Find momentum of the tennis ball right before it hit the ground
	

	Find momentum of the dumbbell before hitting the ground
	Find momentum of the dumbbell just before hitting the glass

Q3. What causes the change in momentum?

