Physics Aviary Momentum Conservation to Oscillation			
Success Criteria: I can accurately analyze and calculate the kinetic energy, momentum, and speed of objects in a collision scenario, determine the resulting amplitude and period of oscillation, and evaluate the mechanical energy lost during the process.			
Getting Started: Select one problem from the <u>Physics Aviary Momentum Conservation to Oscillation</u>			
Step 1: In the picture below fill in all the information about the system before the pellet collides with the hovercraft			
Step 2: Show your calculations for the kinetic energy and the momentum of the pellet <u>before</u> it collides with the hovercraft.			
Step 3: Show the calculations required for finding the speed and kinetic energy of the system immediately <u>after</u> the collision.			
Step 4: Show the calculations to find the amplitude (in cm) and the period of oscillation.			

Step 5: Show the calculations that you did to find the mechanical energy lost when the pellet became embedded into the hovercraft.

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Step 6: Enter all your answers into the program to verify accuracy and confirm that each step was completed correctly. Include a screenshot below showing successful completion, including your name and serial number.