

Conservation Laws

Newton's Cradle

Observe one ball swinging. Next, observe and describe what happens when two balls, three balls, and finally four balls are swinging, and record your observations.

Table 1

	Observation
one ball	
two balls	
three balls	
four balls	

In the preceding experiment, all the balls were of uniform size and mass. What would happen if the balls were not the same mass?

If the first ball swinging has a mass of 4-kg and the rest of the balls are 2-kg, what would the collisions look like?

Table 2

	Answer
Initial collision	
Second collision (return swing)	