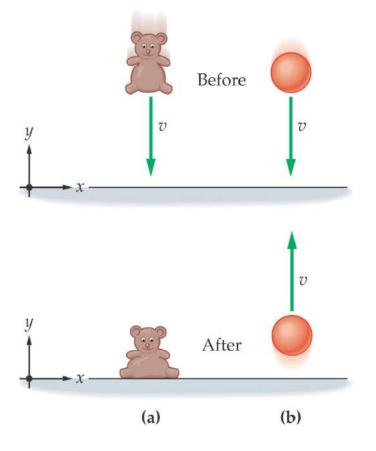
Impulse and Change in Momentum

A Flipped Lesson by Ms. Logan

Change in Momentum (Impulse)

 An outside force is required to change momentum.
Change in momentum is called impulse (j).

$$j = \Delta p$$



Impulse and Force

Outside force is required to change the total momentum of a system.

 $j = F\Delta t$

While driving your 2200 kg car changes speed from 6 m/s to 11 m/s in 3 seconds.

- 1) What is your change in momentum?
- 2)What is the impulse on the snowmobile?
- 3) What is the force on the snowmobile?

A 25 kg child changes his speed from 2 m/s to 8 m/s in a time of 15 seconds. What was the force experienced by the child?