

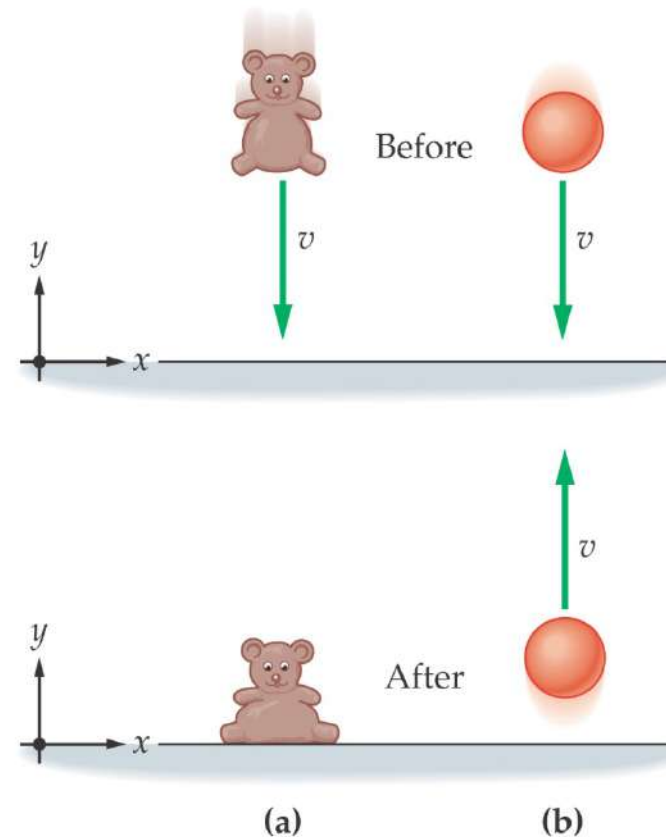
Impulse and Change in Momentum

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

- An 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?