## **Conservation of Momentum #2**

Name\_\_\_\_\_

Video: Fridge falling off a truck

A 100 kg (220 lbs) fridge fell off of the truck. The fridge is traveling at - 5 m/s and hits your car which is
traveling at 24.6 m/s (55 mph). What is the final velocity of the car and fridge, if the fridge sticks to the
hood of the car? $m_1v_1 + m_2v_2 = (m_1 + m_2)v_f$

Givens	Work
Answer	

The collision took place over 0.10 seconds. What was the force on the 1400 kg car? $F = \frac{m_{car}v_{carfinal} - m_{car}v_{carinital}}{t}$		
Givens	Work	
Answer		