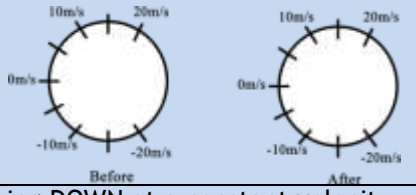
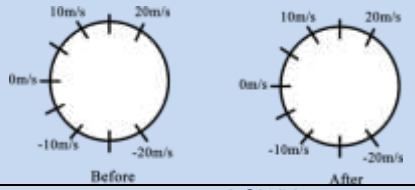
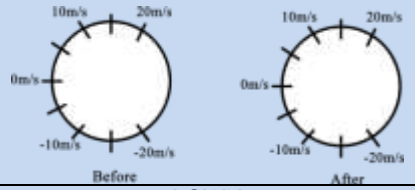
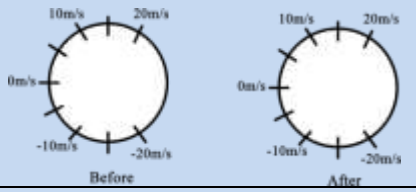
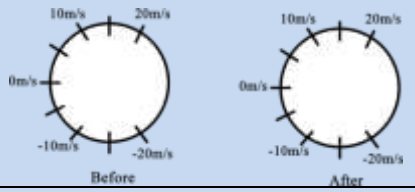
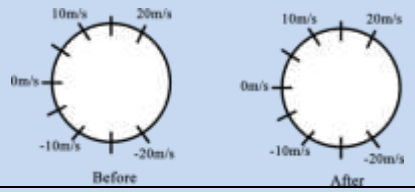
Elevator Activity Name:_____

Part 1: Pre Activity

Given the situations below: 1) Draw the FBD and 2) Draw in the before and after needles on the speedometers.

Going UP at a constant velocity. 	Getting going, going UP 	Stopping, going UP 
Going DOWN at a constant velocity. 	Getting going, going DOWN 	Stopping, going DOWN. 

Part 2: Calculating the force from the Floor (F_N)

What is your weight (you can use mine if you like…200lbs)? _____

What is your (my) weight in newtons?_____

What is your mass in kg? _____

Take a ride in the elevator and find its acceleration at the following locations. Then calculate the force from the floor on your body at each point in time.

Going UP at a constant velocity. a=_____	Getting going, going UP a=_____	Stopping, going UP a=_____
Going DOWN at a constant velocity. a=_____	Getting going, going DOWN a=_____	Stopping, going DOWN. a=_____