Note Title 2/11/2013

Forces

N's 2nd Law

£3

Fret = ma

 $C = \frac{F_{ret}}{m}$

Freb is vector sum of indivitors

a is the acceluration

M is the mass by six

Force diagram Free-body dragram Draw Damn Picture = -9Faran = ma = -mass m=mass does mg = force = weight root hange. Posset: 10 ma = weight

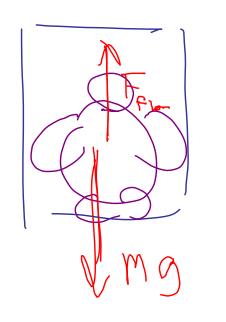
F = Mã Inential Pul frames M Have to use of frame proper ref frame inertial. Q

Quantum physics Lorces in nature Gravity Electro Magnetic (Muclear) Weak Force (Muclear) Strong force Eddy mont

Pulley (massless) V Ma mg Smooth Surface Force 15 perp to surface & mg Later.

A string is attacked to 2.0 kg (-xamb/6) mass & mass is pulled upward so that its accel is 3.0% upward. Emd tension in string T = mg + may $= m(g + ay) = (2.6 \text{ kg})(9.8 \text{ sr}^{-1} + 3.0 \text{ s})$ = 26 N 4.29 An elevator accelorates dunward at 2.4% what force does the floor exert on a 52 lg passenger?

m = 52 by



 $F_{fhod} - M_0 = M_0 =$