## Phys 2110-5 9/26/12

Note Title 9/26/2

Chap H, Chap

May of spr's force is prop to the ant of elongation or compression FIXX

12 = spring const, units A spring with constant h=340 Mm is used to weigh a 6.7 - kg fish. How far does spring stretch Frut =

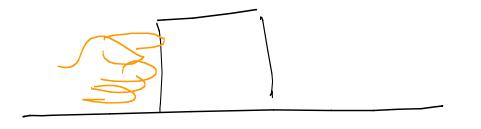
Friction Forces Surface can exert a force opposition motion. what would force of friction depond Materials Depends on normal force.

force of hinetic Ju Mun Moefficient of mg Minetic fric. not always. f & n 5.29 A hockey puch is given alw comes to rest in 56 m, what comes to rest in 56 m, what is the coefficient of hinefic friction.

56 m Can find accel! v2=v2+2a(x-x 14's 56 m = + m9 fr = mm9 m oj  $F_{\text{ref}} = -f_{\text{l}} = /-\text{ming} = \text{ma}$ MCSS Concell

Mass sliding down slope V-tosces cancel.  $f_n = M_n n$ n = mgcos0Forces in X-Zivection: mg=1n0-fl=mgsin0-Mumg 650

mg 51 nD - ML mg C060 = max Q x = 9 5 m - M n 9 6 5 0  $= \alpha \left( sm \theta - ML cos \theta \right)$ Until block more tstate = I frager fstatic has maxim The important 15 sure 15 what bes'it depend on? 5vifaces normalforce. Ms coefficient of P.15 Static Friction. f = something = M3N



Graph force of finction 15. time.

Force of force of ten. Cric

Black
Starts
Mor

p.75