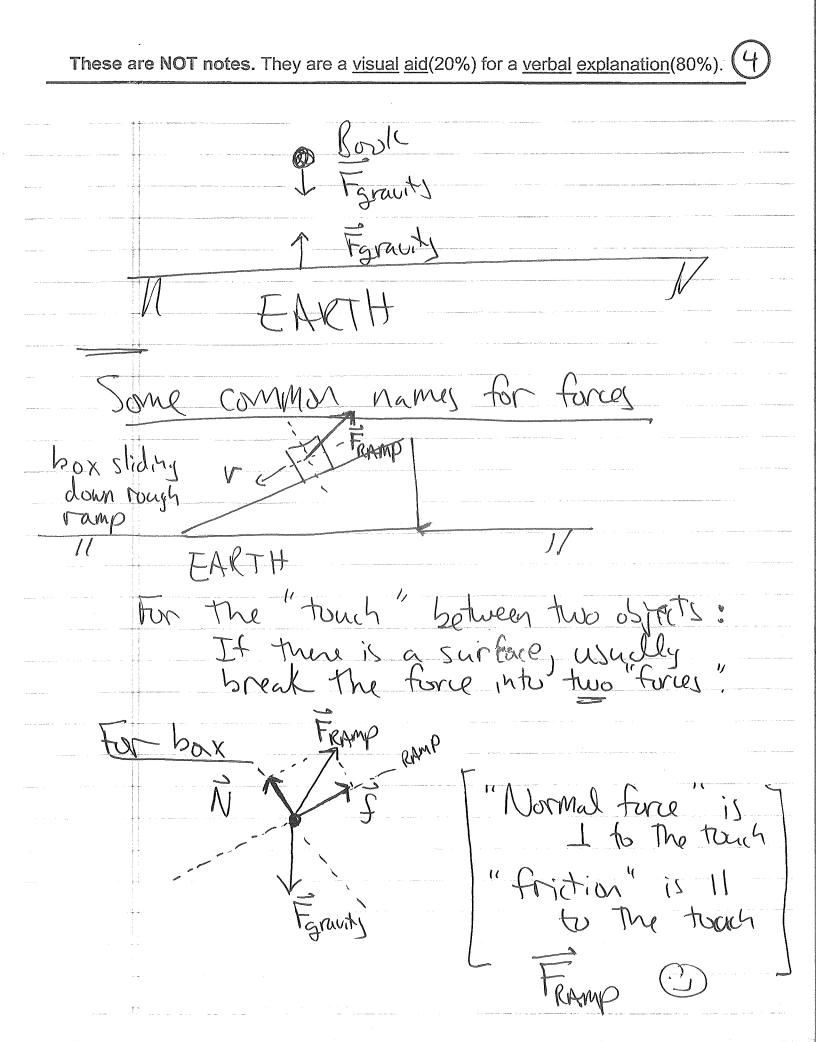
These are NOT notes. They are a <u>visual aid</u> (20%) for a <u>verbal</u> <u>explanation</u> (80%).
Ch. 4, 5, 13 @ WARNING!! WARNING!!
Isaac Newton (1642-1727) (3)
Cambrige 1665 -> Farmer (3) 1665-6 Developed Ideas.
* Law of Gravity (Universal)
* All mass attracts all other mass (Why?)
FI = GMM [1915-Einstein] "General Relativity
Universal gravitation constant.

Ť.:

These are NOT notes. They are a <u>visual aid</u> (20%) for a <u>verbal explanation</u> (80%).
"Spooky" force: "action at a distance"
L) Acts who touching
Newton's Laws of Mation
Newton's game, by Newton's rules. 186
EVERY explanation you present, \$
Force: A push or pull. Vector.
S.I. unit "newton" (N)
Kinds of Forces
"Spooky" "touch"
gravity
"Free-body diagram: Imagine that you are the object in question. Identify
all Is The Force, acting on you.



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Laws of Motion
1st Forces Change Motion.
"Objects moving in a straight line continue to do so unless acted
en by a fire"
"Law of Inetia" (Galileo)
Aristotle (384 B.C.) -> like seeks like. Naturalstate of rest
2 <sup>nd</sup> - Forces produce accelerations
F=MQ
VECTOR EQIN (3 egins!!!)
Mass -> a # indicating how much stuff'  ( (cg) is present. An indication of how difficult it is to change an objects motion
3 rd - Two sides to every story (3)

	These are NOT notes. They are a visual aid(20%) for a verbal explanation(80%).
	EX A hockey player Kicks a pack across The ice At the instant when the pack is 10 m from the player, draw a free-body diagram showing all the fires as the pack.
	across The ice At the instant when
	The puck is 10 m from the player, draw
	a free-body diagram showing all the
	forces as the puck
	The state of the s
.24	
	S Pyck >
	Faranty
•	
	Process for solving (Applying) Newton's Law
	· Draw Picture
	Choose a mass to which you want to apply 2 nd law
	to apply 7 nd law
	· Construct a free-body diagram for
	Mut Mall
	- Show Mass as a point - Choose wordinate system - Identify forces
	- Choose coordinate system
	- Identify forces
	- Write tive of the tive
	Apply 7 nd law and
	· Apply 2nd law and Algebrate
	Parat 1 Capalad
	Le Repeat if needed

These are NOT notes. They are a <u>visual aid</u>(20%) for a <u>verbal explanation</u>(80%). (7)A Sky box is released from rest & The top of a plane (smooth) \*

McInal @ 30°. Find acceleration of box along The plane. Find me normal force on the box. \* No frition for pax: Fg (a.ka." weight") N=+N7 Fg=-FgSh(30) == FgCol(30) = (REnt height ramp)