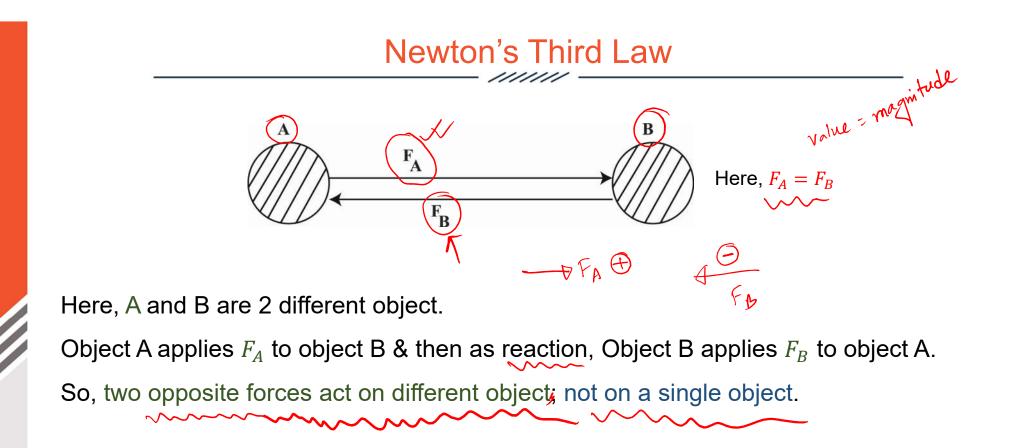


Newton's Third Law

• Definition: When an object applies a force on another object, then that object also applies a force of equal magnitude on the first object but in the opposite direction.



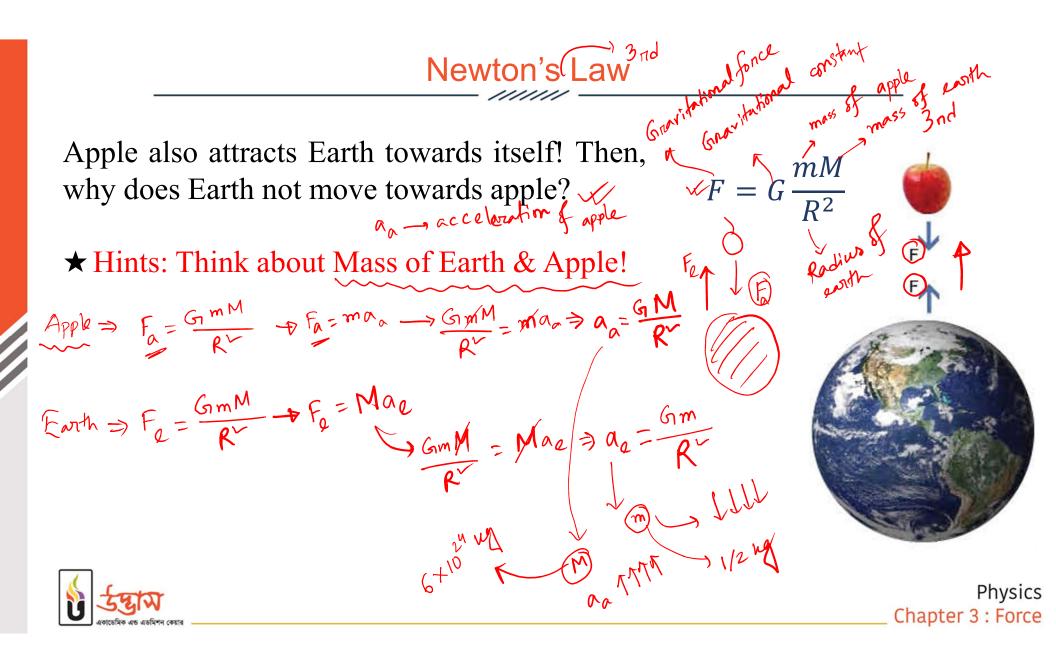




Newton's Law

- Newton's 1st Law denotes \rightarrow What happens when No Force is applied! > F=ma
- Newton's 2^{nd} Law denotes \rightarrow What happens when Force is applied!
- Newton's 3rd Law denotes → What happens when an objects applies force on another object. (Reaction Force)





Application of Newton's 3rd Law

During walking when a person applies force on the ground, then the ground also applies force on him in contrary!

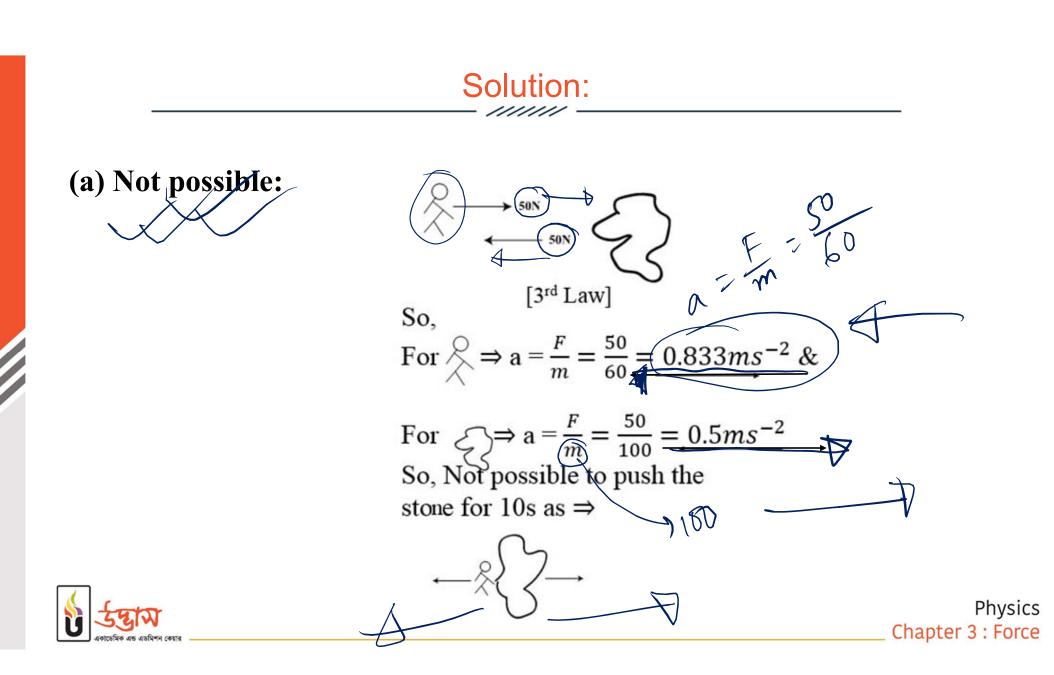
Suppose, you are trapped in a Quicksand and drowning! So, will there Newton's 3rd Law work?

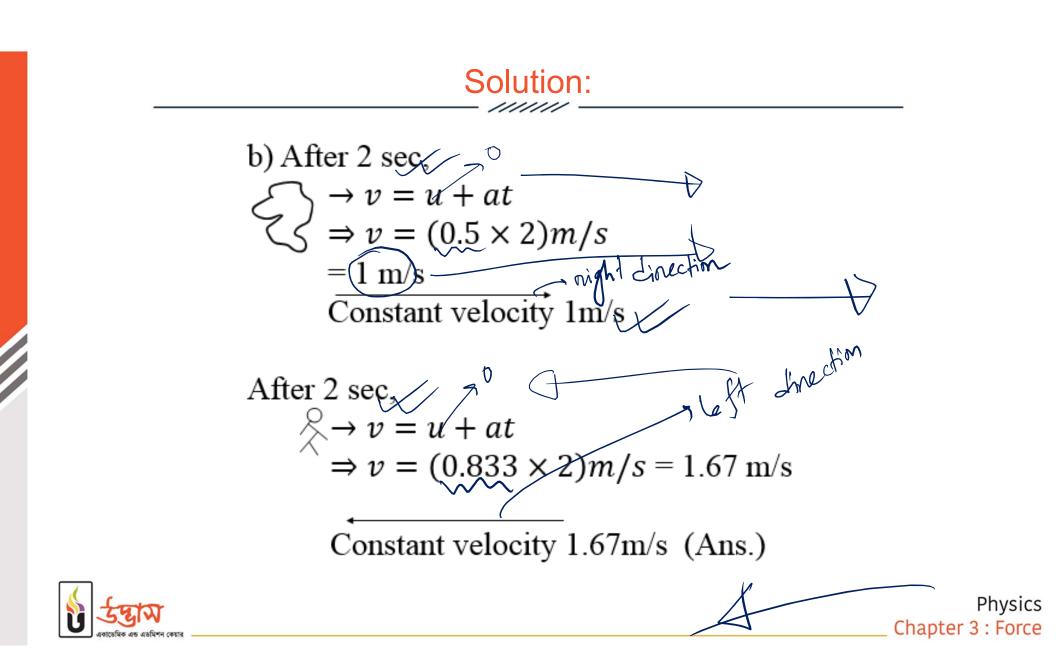
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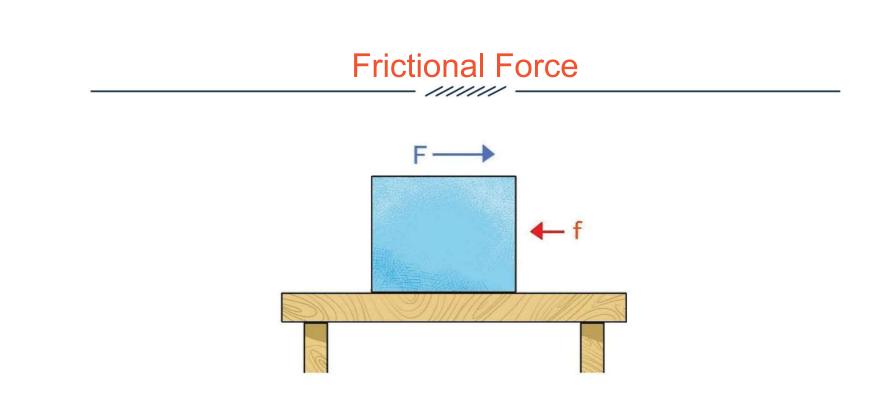


Application of Newton's 3rd Law

Q. On a frictionless surface, you decide to push a stone with 50N force and move it from one end to another one. 4 Tr (a) After 10s, velocity of stone =? by In case you pushed the stone for 2s, what would happen then? × 4-,0 ztone Knidul 60 kg 0 friction No Physics Chapter 3 : Force

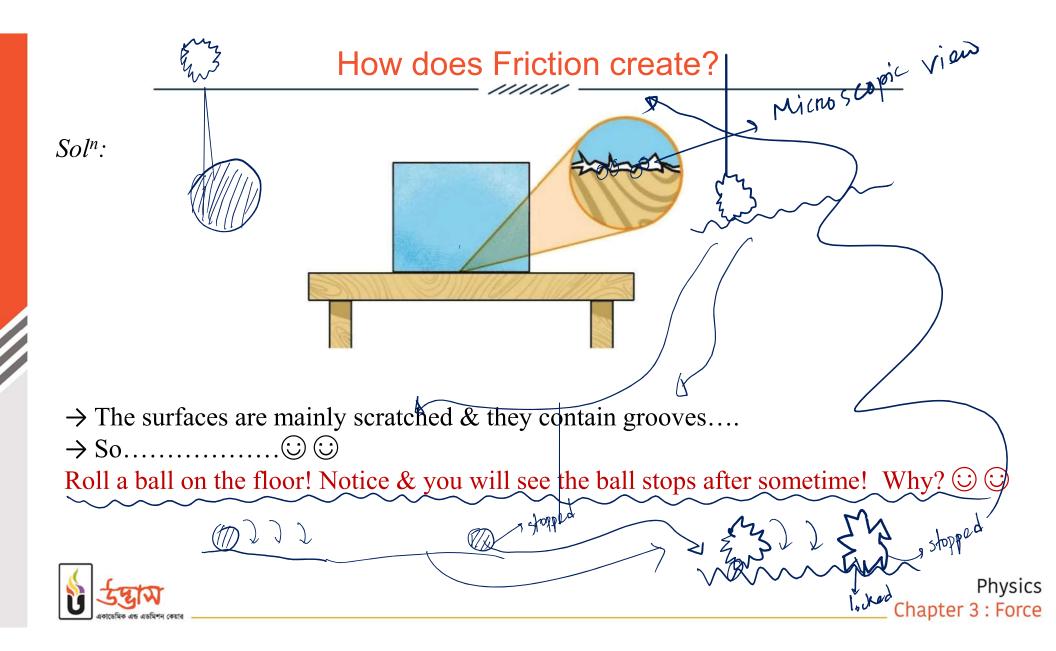


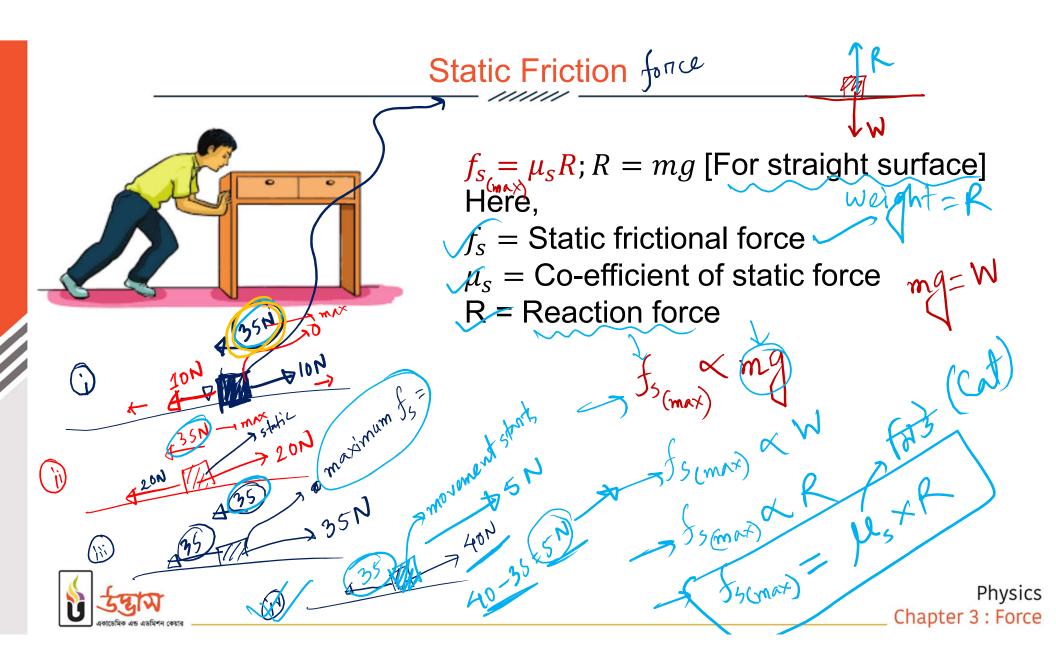


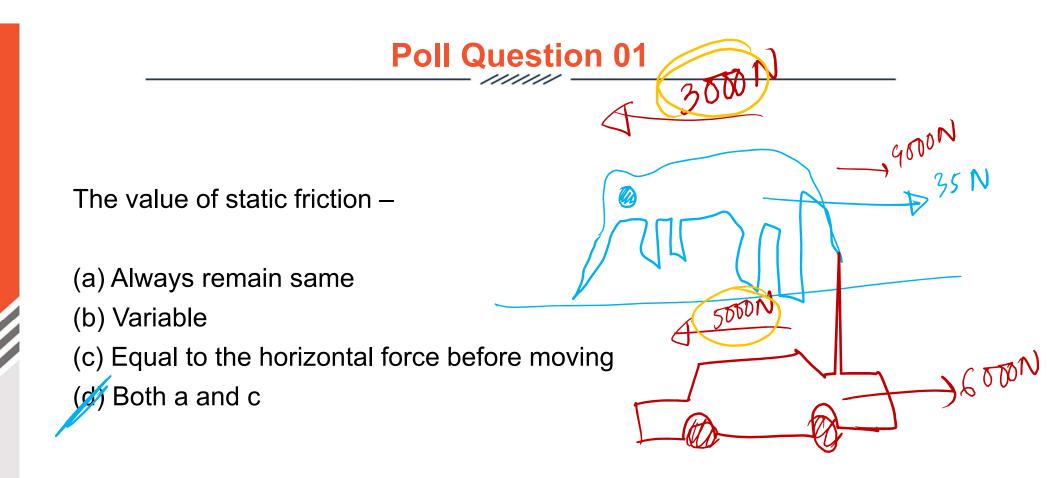


 \rightarrow Resistive Force that acts in the reverse direction of the object moving! ** f is frictional force.....

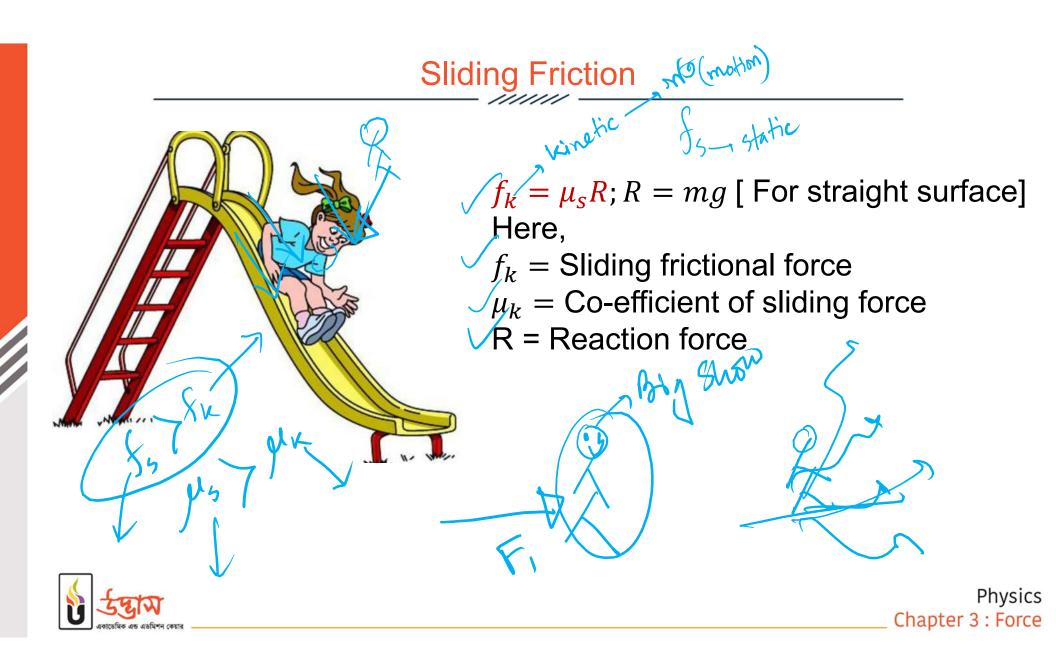












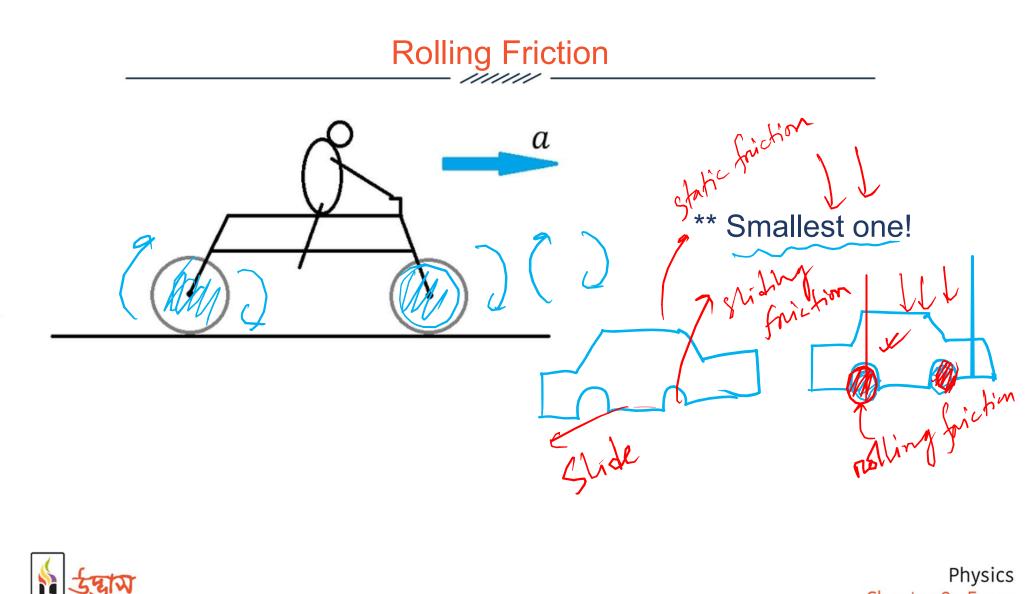
Poll Question 02

45" JX

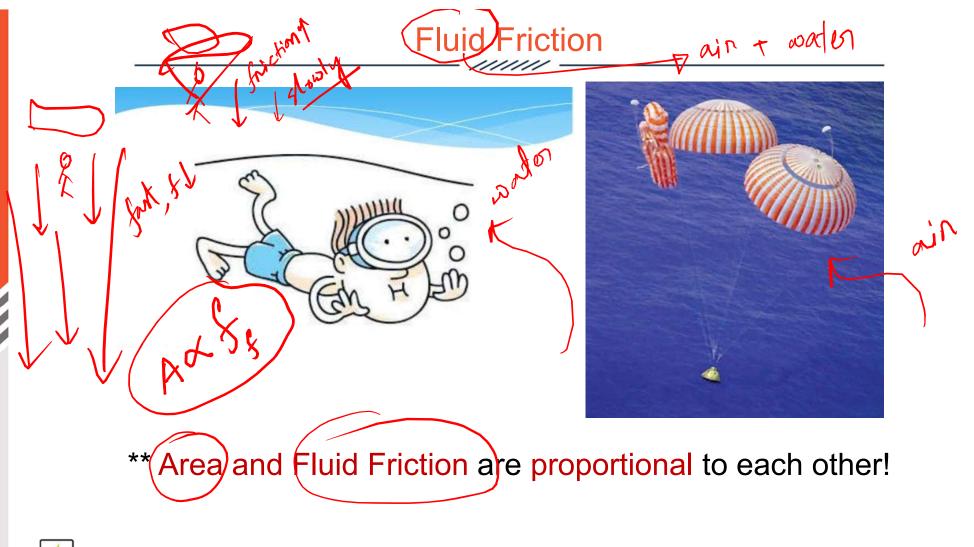
What is the relation between static and kinetic friction coefficient? Static friction coefficient is ______ than kinetic friction coefficient.

(a) Bigger
(b) smaller
(c) Both bigger and equal
(d) None

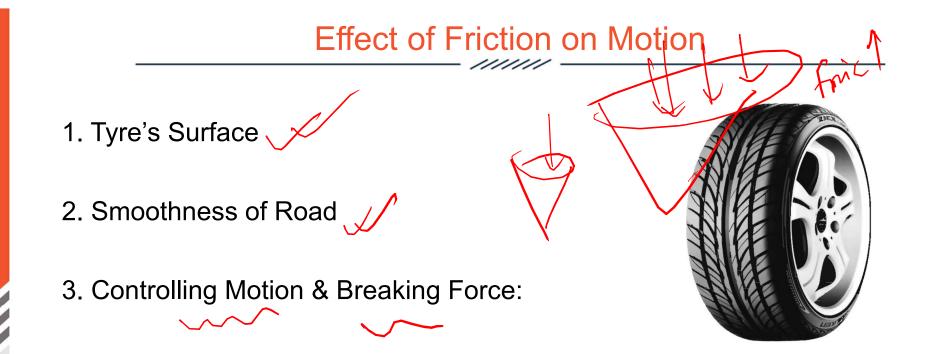




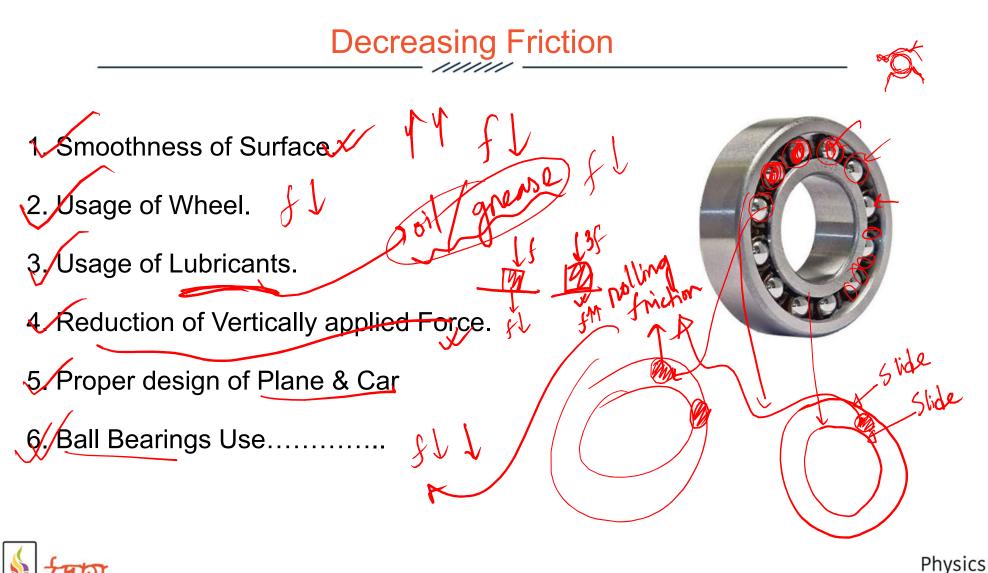
Chapter 3 : Force



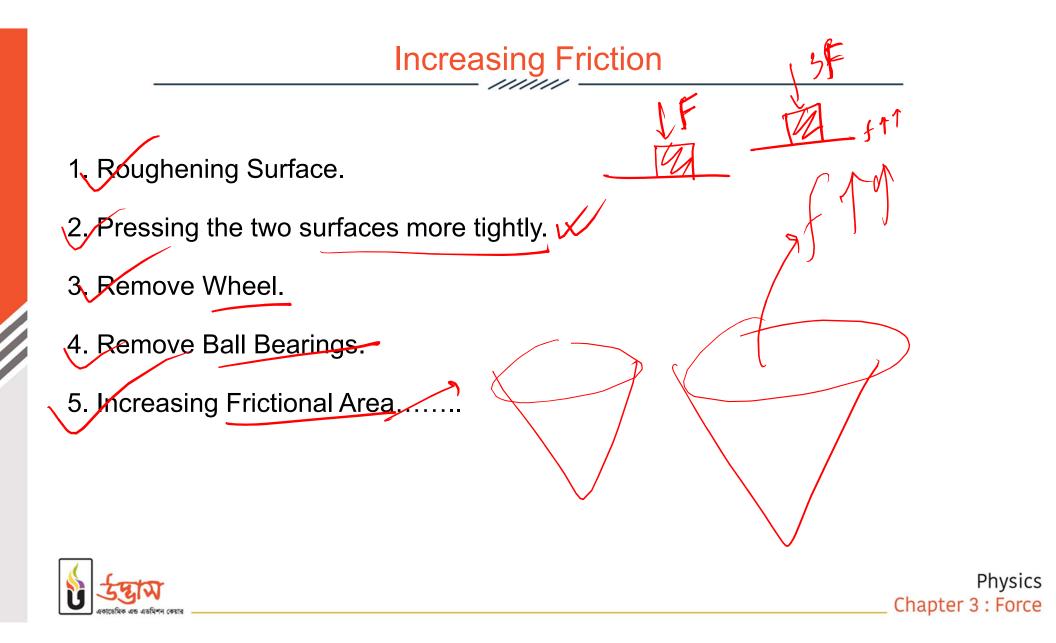
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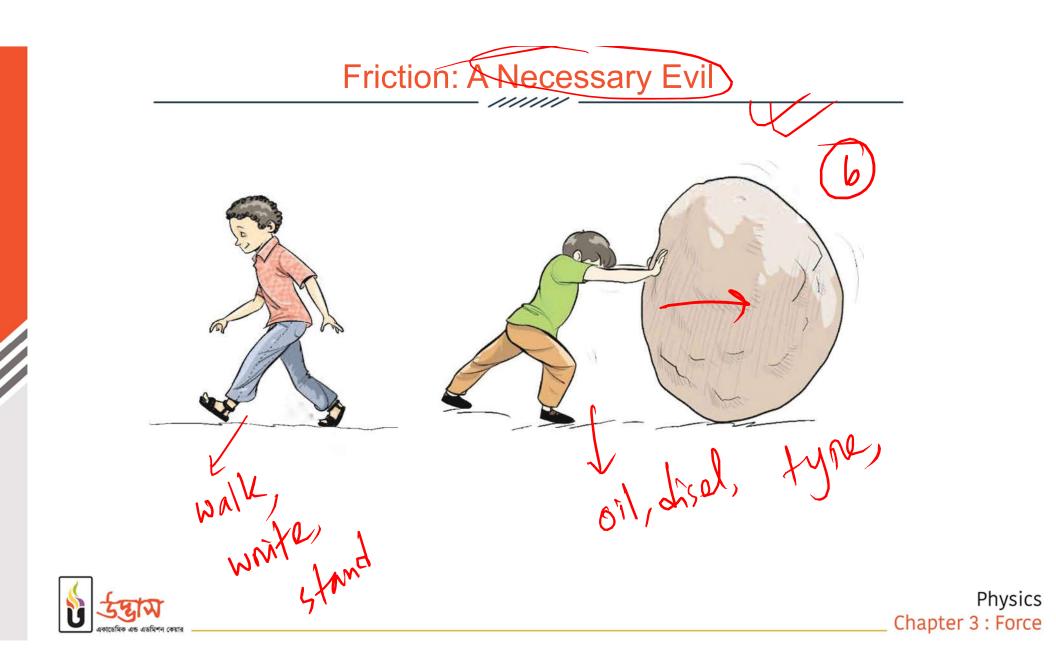






Chapter 3 : Force





Poll Question 03 A horizontal force of 90N is applied on a block of 20kg mass. What is the acceleration of body? [Static friction coefficient: 0.5 and kinetic friction coefficient: 0.4] × 0 70 (a) 2 85 " ys" r = 0.5t r (b) 1 (d) The body will be at rest -,98N Physics

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