

## Particular forces (A continuation of Newton's laws)

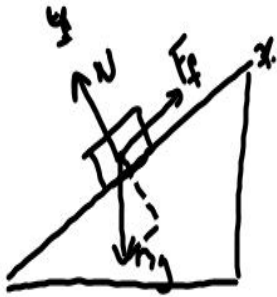


Fig 1

$N$  - Normal force: force supplied by some surface in reaction to a force being applied to it by some object.  $\perp$  to surface.

$$F_{f1} \sim N = mg \cos \theta$$

$mg$  - Weight, force due to gravity.

gravity is related to the bending of space by matter.

$F_f \sim$  Friction  $\mu N$   $\left. \begin{matrix} \mu_k \\ \mu_s \end{matrix} \right\}$  coefficients related to materials + conditions.