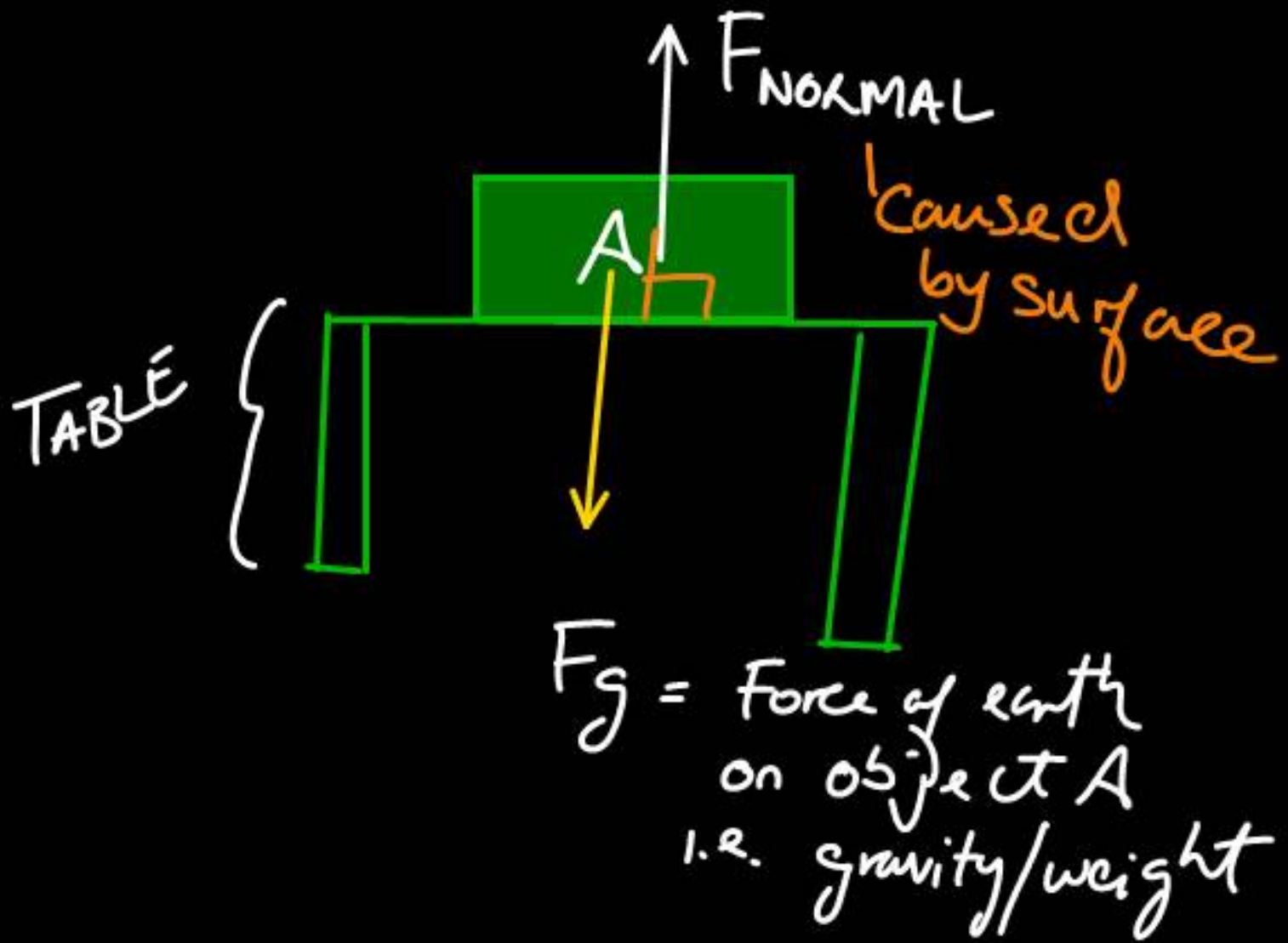


Free-body Diagrams

↳ Aim is to represent an object in a simplified way and to indicate all the forces acting on the object in magnitude + direction by means of arrows.



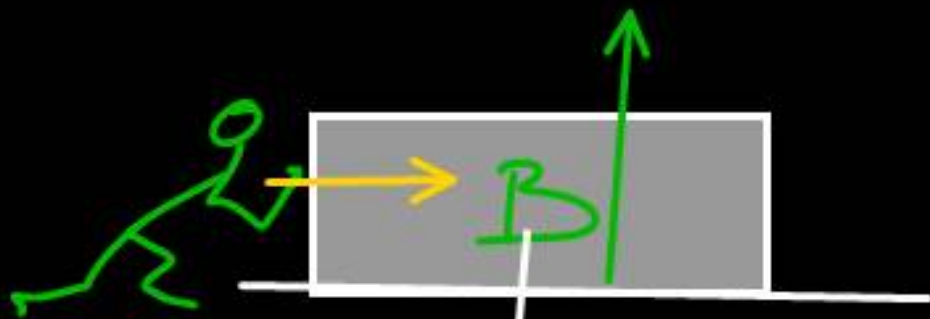
Free-body
diagram

Balanced forces

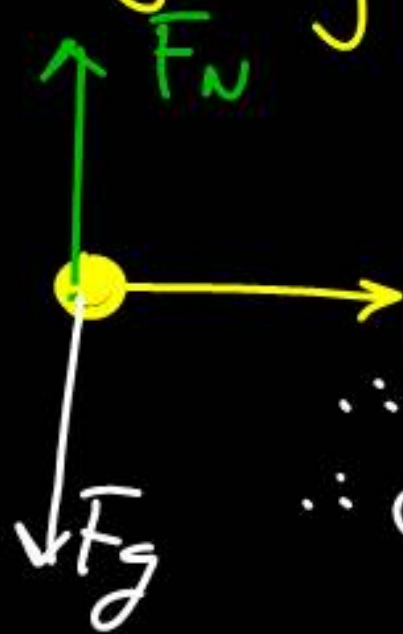
- No motion
- Motion
 - ↳ Constant velocity



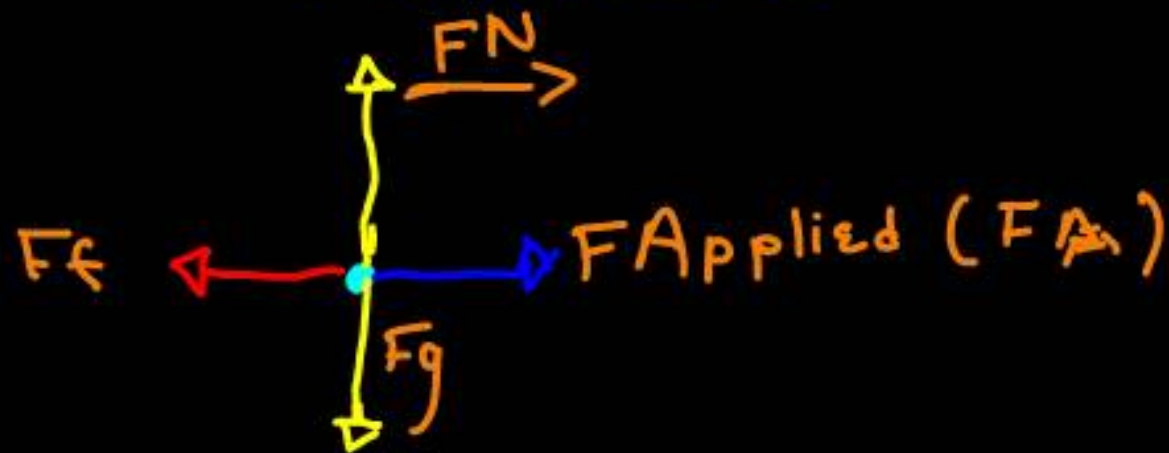
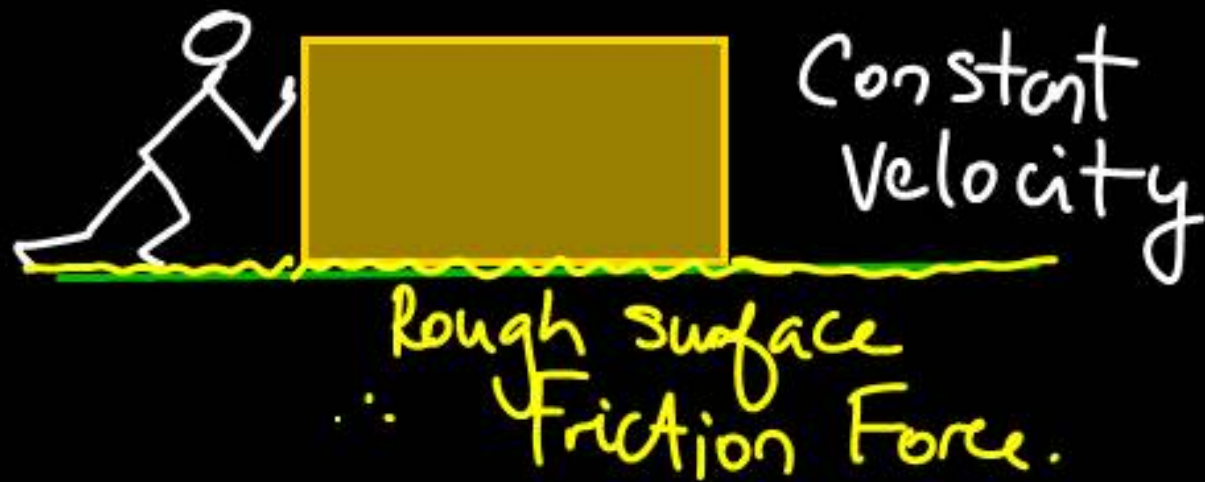
Forces are
Balanced
because (\therefore)
they are equal
+ opposite
+ act on one
object



Free-body diagram



$F_{APPLIED}$
∴ unbalanced
∴ cause acceleration





Rough surface
 \therefore Friction Force.

