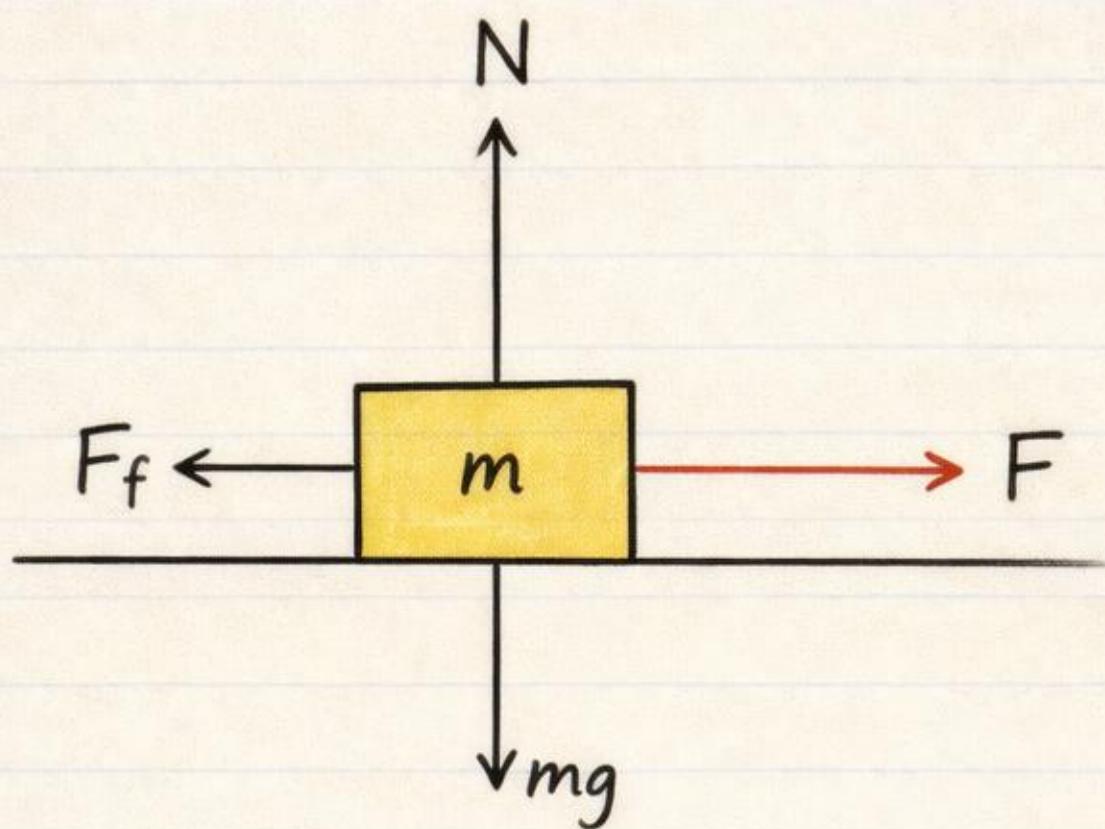


## Free Body Diagram

A free body diagram of a block on a flat surface being pulled to the right by a horizontal force is shown below.



$N$  represents the normal force,  $F_f$  is the frictional force,  $F$  is the applied force, and  $mg$  is the gravitational force.